

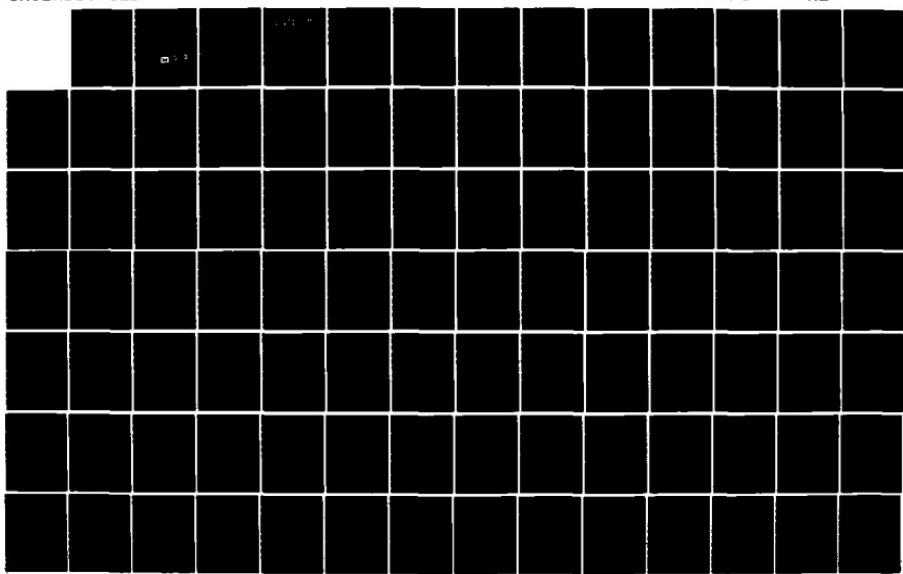
RD-A148 824

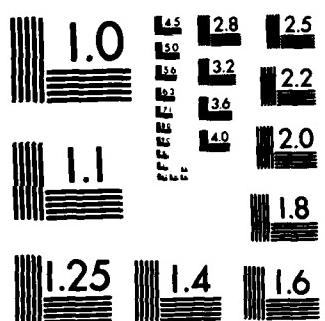
WATERBORNE COMMERCE OF THE UNITED STATES CALENDAR YEAR 1/2  
1982 PART 4 WATERM. (U) CORPS OF ENGINEERS FORT BELVOIR  
VA WATER RESOURCES SUPPORT CE.. JUL 84 WRSC-WCUS-82-4

F/G 15/5

NL

UNCLASSIFIED





MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

(12)

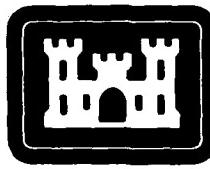
AD-A148 824

# WATERBORNE COMMERCE OF THE UNITED STATES

*Calendar Year 1982*

PART 4  
WATERWAYS AND HARBORS  
PACIFIC COAST, ALASKA AND HAWAII

DTIC FILE COPY



This document has been approved  
for public release and sale; its  
distribution is unlimited.

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS  
WRSC-WCUS-82-4

84 12 12 052

## Unclassified

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER  WRSC-WCUS-82-4	2. GOVT ACCESSION NO.  AD-A148824	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle)  WATERBORNE COMMERCE OF THE UNITED STATES Calendar Year 1982 Part 4 Waterways and Harbors, Pacific Coast, Alaska and Hawaii	5. TYPE OF REPORT & PERIOD COVERED  Annual Publication Calendar Year 1982	
6. PERFORMING ORG. REPORT NUMBER	7. AUTHOR(s)  Department of the Army Corps of Engineers	8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS  Waterborne Commerce Statistics Center P. O. Box 61280 New Orleans, LA 70161 WRSC-CC	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS	
11. CONTROLLING OFFICE NAME AND ADDRESS  Office, Chief of Engineers, U.S. Army DAEN-CW Forrestal Bldg, Stop 391 1100 Independence Ave., SW Wash, DC 20314	12. REPORT DATE  July 1984	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)  Water Resources Support Center Data Collection Management Division Casey Bldg. Fort Belvoir, VA 22060 WRSC-C	13. NUMBER OF PAGES  131	
16. DISTRIBUTION STATEMENT (of this Report)  Approved for public release; distribution unlimited	15. SECURITY CLASS. (of this report)  Unclassified	
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)	15a. DECLASSIFICATION/DOWNGRADING SCHEDULE	
18. SUPPLEMENTARY NOTES  Available from: National Technical Information Service (NTIS) 5285 Port Royal Road Springfield, VA 22161		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)  Waterborne Commerce -- Statistics		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number)  Waterborne Commerce of the United States, (WCUS), Part 4, calendar year 1982 is one of a series of five publications containing statistics on the commercial movement of foreign and domestic cargo. WCUS, Part 4, presents detailed data by commodity and traffic for the waterways and harbors on the Pacific Coast, Alaska and Hawaii. The statistics include commodities given in short tons (2000 lbs) and vessel trips for the harbors and waterways.		

# **WATERBORNE COMMERCE OF THE UNITED STATES**

## **CALENDAR YEAR 1982**

### **PART 4**

#### **WATERWAYS AND HARBORS PACIFIC COAST, ALASKA AND HAWAII**

COMPILED UNDER THE SUPERVISION OF  
THE WATER RESOURCES SUPPORT CENTER  
U.S. ARMY CORPS OF ENGINEERS  
FORT BELVOIR, VIRGINIA

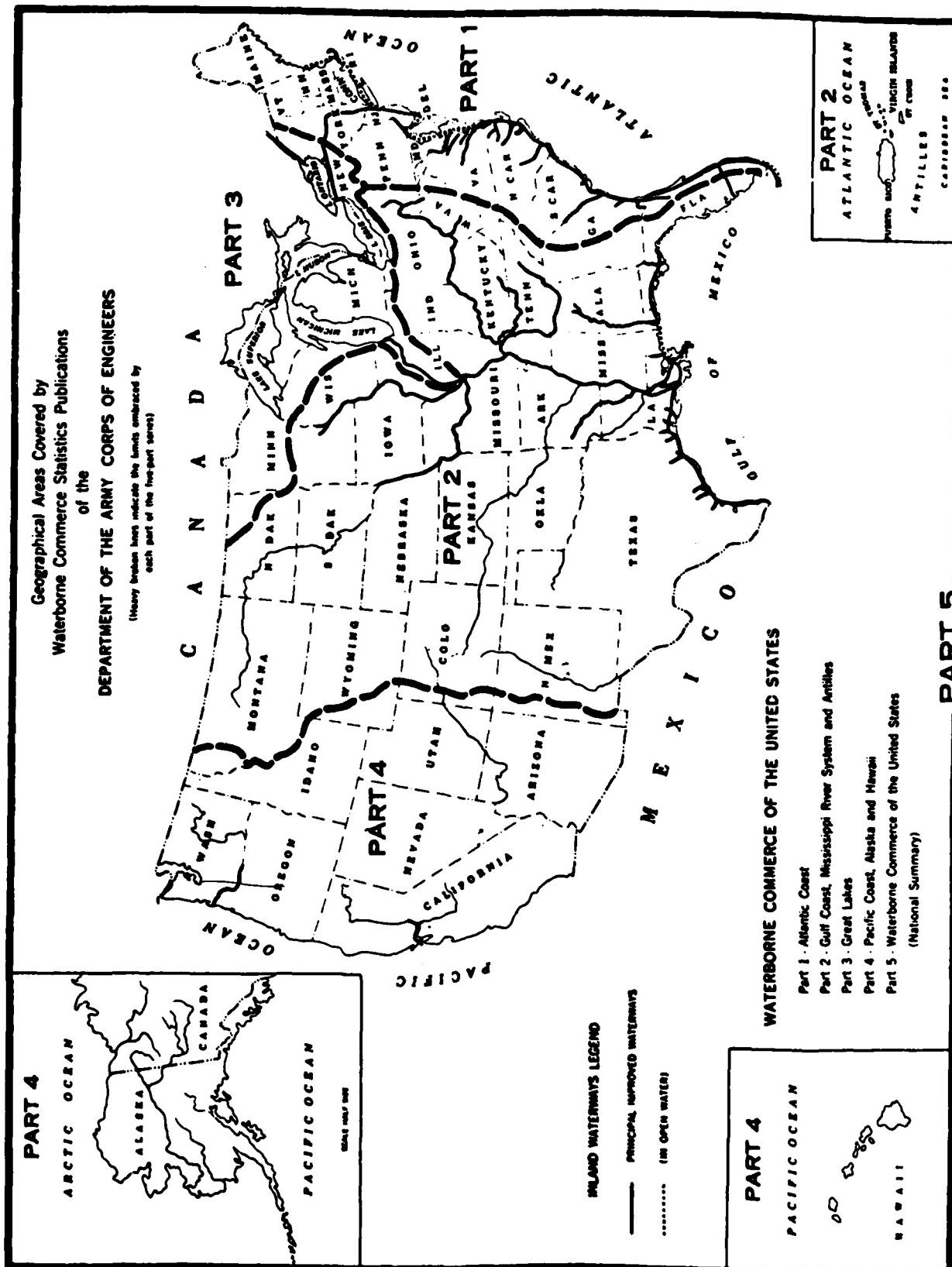
For sale by:

District Engineer, U.S. Army Engineer District, San Francisco  
211 Main Street, San Francisco, California 94105

District Engineer, U.S. Army Engineer District, New Orleans  
P.O. Box 60267, New Orleans, Louisiana 70160

Price \$2.00

# IV



## CONTENTS

V

	Page
Map of the United States showing geographical areas covered by each of the five Waterborne Commerce Statistics publications. . . . .	IV
Introduction . . . . .	VII
Explanation of Terms for Kind of Traffic . . . . .	VIII
Commodity Classification for Domestic Waterborne Commerce. . . . .	IX
SECTION 1. Comparative statements of commerce for preceding years and the detailed freight traffic for calendar year 1982 of waterways and harbors of the Pacific Coast, Alaska and Hawaii, arranged by U.S. Army Engineer Districts. . . . .	
Los Angeles, Calif. . . . .	1
Sacramento, Calif . . . . .	3
San Francisco, Calif. . . . .	10
Pacific Ocean Division. . . . .	16
Walla Walla, Wash . . . . .	30
Portland, Oreg. . . . .	38
Seattle, Wash . . . . .	40
Alaska. . . . .	61
. . . . .	76
SECTION 2. Trips and drafts of vessels for waterways and harbors of the Pacific Coast, Alaska and Hawaii, arranged by U.S. Army Engineer Districts. . . . .	
Los Angeles, Calif. . . . .	93
Sacramento, Calif . . . . .	95
San Francisco, Calif. . . . .	97
Pacific Ocean Division. . . . .	99
Walla Walla, Wash . . . . .	102
Portland, Oreg. . . . .	104
Seattle, Wash . . . . .	105
Alaska. . . . .	111
. . . . .	114
Index. . . . .	119

## INTRODUCTION

This publication is one of a series containing statistics on the waterborne commerce of the United States during the calendar year 1982. Four of these publications present detailed data on the movements of commodities and vessels at the ports and harbors and on the waterways and canals of the United States, the Commonwealth of Puerto Rico, and the Virgin Islands, and the fifth contains summary data of the country as a whole. The numbers of the publications and the areas covered are:

Area

- Part 1. Atlantic Coast
- Part 2. Gulf Coast, Mississippi River System, and Antilles
- Part 3. Great Lakes
- Part 4. Pacific Coast, Alaska, and Hawaii
- Part 5. Waterborne Commerce of the United States (National Summaries)

Both the foreign and domestic commerce of the United States by water are included. Data on the foreign commerce were supplied to the Corps of Engineers by the Bureau of the Census; data for the compilation of the domestic statistics were collected by the several offices of the Corps of Engineers, Department of the Army, in compliance with various acts of Congress. The principal provision governing the collection of these data is included in the River and Harbor Act of September 22, 1922:

Section 11. That owners, agents, masters, and clerks of vessels and other craft plying upon the navigable waters of the United States, and all individuals and corporations engaged in transporting their own goods upon the navigable waters of the United States, shall furnish such statements relative to vessels, passengers, freight and tonnage as may be required by the Secretary of War: Provided, that this provision shall not apply to those rafting logs, except upon a direct request upon the owner to furnish specific information.

That every person or persons offending against the provisions of this section shall, for each and every offense, be liable to a fine of \$100 or imprisonment not exceeding two months, to be enforced in any direct court in the United States within whose territorial jurisdiction such offense may have been committed.

While the information as now collected and compiled is designed to meet the administrative requirements of the Department of the Army in connection with the duties assigned by Congress, it also provides useful data for other governmental departments, commercial and shipping concerns, and others interested in transportation.

Waterborne traffic movements were reported to the Corps of Engineers by all vessel operators of record on prescribed forms approved by the Office of Management and Budget under the Federal Reports Act of 1942 for those movements of their vessels which were classified as domestic traffic; namely, between United States ports, continental and noncontiguous, and on the inland rivers, canals, and connecting channels of the United States, Puerto Rico, and the Virgin Islands, excluding the Panama Canal. The reports were generally submitted on the basis of a vessel movement completed in one direction and, for movements with cargo, the origin and destination of the water transportation of each individual commodity. In compiling the data, the entire movement was included in the year in which the movement was completed even though the shipment may have originated in the preceding year, except that, beginning with calendar year 1961 statistics, a cutoff date of 28 February was established for the processing of reports from vessel operators covering the prior year's completed movements. Hence, reports of movements completed in 1982 but not reported to the Corps of Engineers until after 28 February 1983 will be included in the next year's, 1983, statistics rather than in this publication, while reports of movements completed in 1981 but reported to the Corps after 28 February 1982 are included in this publication.

Sponsored by the Office of Statistical Policy, Office of Management and Budget, a uniform system of classification for freight was developed with cooperation of all Federal Agencies engaged in collecting and compiling data on shipping. This classification, the Commodity Classification for Domestic Waterborne Commerce, is used for data on the foreign and domestic commerce presented in these publications, although some minor modifications exist in the foreign data which were necessitated by Bureau of the Census policies and procedures.

The domestic traffic includes all commercial movements between points in the United States, Puerto Rico, and the Virgin Islands. Traffic with the Panama Canal Zone is treated as foreign commerce. Cargo moved for the military agencies in commercial vessels is reported as ordinary commercial cargo; military cargo moved in Department of Defense vessels is omitted from these statistics.

All movements between the United States and foreign countries and between Puerto Rico and Virgin Islands, U.S.A., and foreign countries are classified as foreign traffic. Trade between United States territories and possessions, i.e. Guam, Wake, American Samoa, etc., and foreign countries is excluded.

These data are furnished to the Corps of Engineers by the Bureau of the Census under a working arrangement sponsored by the Office of Statistical Policy, Office of Management and Budget. The data are confined to movements by water, and are reconcilable with published reports of the Bureau of the Census. Shipments of domestic merchandise and re-exports of foreign merchandise are termed exports. The imports include inbound merchandise for direct consumption and entries into custom bonded storage and manufacturing warehouses. Intransit merchandise, defined by the Bureau of the Census as merchandise coming into the United States from a foreign country and shipped to a foreign country without having been entered as an import, is treated as an import when unloaded from a vessel and as an export when loaded on a vessel. Export shipments for use of the United States Armed Forces abroad are excluded from the statistics as are import shipments on Department of Defense owned and operated vessels. Foreign trade data of territories and possessions other than Puerto Rico and the Virgin Islands, which are under the jurisdiction of the Department of the Interior, were not furnished to the Corps of Engineers by the Bureau of the Census and are excluded from the statistics of both agencies.

Export shipments under the various foreign aid programs on Department of Defense operated vessels, either American Flag commercial vessels under time, voyage, or space charter or vessels owned and operated by the Department of Defense, and various items (listed by the Census) which affect national security are not published in terms of the individual commodities shipped. Instead, a lump-sum tonnage figure is compiled and appears in these tables as commodity code 9999, "Department of Defense controlled cargo and Special Category Items."

The 1982 statistics on waterborne exports of domestic and foreign merchandise and non-Department of Defense shipments of Special Category commodities reflect fully compiled data for shipments to Canada individually valued at \$2,000 and over combined with estimated data for shipments valued \$251-\$1,999, based on a 10-percent sample of such shipments. For countries other than Canada, the export statistics reflect fully compiled data for shipments valued \$1,000 and over combined with estimated data for shipments valued \$251-\$999, based on a 50-percent sample of such shipments. Data on export shipments valued under \$251 are excluded from this report.

Import statistics for 1982 exclude data on shipments valued \$250 and under reported on both formal and informal entries. Informal entries generally contain items valued not more than \$250.

Foreign trade data furnished by Census are based on reports processed for Census' monthly data January through December and represent statistical year rather than calendar year data.

## VIII

## *Waterborne Commerce of the United States, 1982*

The figures on ton-miles are computed by the Corps of Engineers; each ton-mile figure reflects only the distance each ton of cargo, foreign or domestic, moved on the waterway described in the section for which the figure is reported. The summary of ton-miles for the entire United States contained in Part 5 includes movements on the inland waterways and Great Lakes System only; cargoes, foreign and domestic, of deep-sea vessels are included only for that portion of the voyage that occurred in inland rivers, canals, or connecting channels--neither the carriage on the oceans and the Gulf of Mexico nor the tonnage moved among the territories and possessions, "Intra-territory Traffic," are taken into account.

Trips of vessels at ports are reported as inbound, which represents the number of entrances or arrivals; and outbound, which represents the number of clearances or departures. On the waterways, the number of trips signifies the number of individual vessel movements on the waterway in each direction; a single trip is counted for each vessel using the waterway in a continuous direction regardless of the number of stops made on the waterway. Some towboat trips and empty barge moves are sampled to expedite processing and reduce cost. Even with sampling; however, the number of towboat trips are calculated from better than 70-percent of the total number of towboat moves reported and the number of barge trips are derived from better than 85-percent of the total number of barge moves reported. The number of trips reported includes vessels engaged in foreign trade, which are furnished by the Bureau of the Census based on Customs Entrance and Clearance forms. Complete information on trips of vessels, ferry and other, not required to clear formally was not furnished by the Bureau of Customs beginning with data for the year 1969. Adjustments are made to the trip counts, if necessary, to more accurately reflect actual traffic patterns (e.g. inbound vs. outbound trip counts).

Customs regulations with regard to entrance and clearance do not provide all data as required by the Corps of Engineers where supplementary information could be obtained, adjustments were made by the Corps of Engineers to reflect the true volume of vessel movements in and out of channels and harbors reported in these publications.

Excluded from these figures are United States Army and Navy vessels, such as Army transports and Navy tankers entering or clearing without commercial cargo, and foreign military and naval craft.

Some duplication may exist in the number of vessel trips at ports for those American Flag vessels engaging both foreign and domestic trade on the same voyage. Since movements of vessels and cargo between two United States ports are reported to the Corps of Engineers, and entrance and clearance must be obtained from Customs at each port of call while foreign cargoes are aboard, those vessels engaged in combined foreign and domestic movements may be reported twice.

Draft, in all cases, is the distance from water level to the lowest point of the vessel under-water and is measured when the vessel is completely stopped - either tied to a dock or at anchor. The draft under way - while the vessel is moving - is dependent on many factors, such as speed of the vessel and depth and width of the channel, and varies from channel to channel. Channel depth of at least 3 feet more than the draft of a vessel at dock is required where vessels must be operated at slow speed. Channel depth of 5 feet more than the draft of a vessel at dock is required in channels where vessels can be operated at more efficient and economical speeds.

Passenger arrivals and departures on the various waterways and channels and at ports include passengers engaged in foreign travel. While the Immigration and Naturalization Service, Department of Justice, no longer provides foreign passenger data to the Waterborne Commerce Statistics Center, Foreign passengers traveling between Canada and the United States in the Great Lakes and Alaska areas are reported to the Corps of Engineers from other sources available to the Corps. In addition, the New England Division has been able to obtain foreign passenger data for calendar year 1982 in Bar Harbor, Lubec, Eastport and Portland Harbor.

Foreign data on various connecting channels having no terminal facilities, such as Cape Cod Canal, and Chesapeake and Delaware Canal, are not available from Census records. Hence, the Corps of Engineers developed such data from canal records.

SECTION 1 of this publication presents comparative statements of commerce for preceding years and the detailed freight traffic for calendar year 1982 of harbors and waterways in the area covered by this part of the statistics series.

SECTION 2 presents data on the movements of vessels at the harbors and on the waterways included in the first section.

### TERMS FOR KIND OF TRAFFIC

The terms applied to the kinds of traffic as found in these publications are explained as follows:

#### Pertaining to Ports

**Imports and Exports.** These terms apply to traffic between the United States and foreign ports, including the Canal Zone. Traffic of the U.S. Great Lakes ports with Canada is supplemented by the term "Canadian" to differentiate it from overseas traffic.

**Coastwise Receipts and Shipments.** These terms apply to domestic traffic receiving a carriage over the ocean, or the Gulf of Mexico, e.g. New Orleans to Baltimore, New York to Puerto Rico, San Francisco to Hawaii, or Puerto Rico to Hawaii. Traffic between Great Lakes ports and seacoast ports, when having a carriage over the ocean, is also termed "coastwise." The Chesapeake Bay and Puget Sound are internal bodies of water; therefore, traffic confined to these areas is "internal" rather than "coastwise."

**Lakewide Receipts and Shipments.** These terms apply to traffic between United States ports on the Great Lakes System. The Great Lakes System is treated as a separate system rather than as a part of the inland system.

**Internal Receipts and Shipment.** These terms apply to traffic between ports or landings wherein the entire movement takes place on inland waterways. Also termed internal are movements involving carriage on both inland waterways and waters of the Great Lakes; inland movements that cross short stretches of open waters which link inland systems, marine products, sand and gravel taken directly from beds of the oceans, the Gulf of Mexico and important arms thereof; and movements between offshore installations and inland waterways.

**Local.** Movements of freight within the confines of a port whether the port has only one or several arms or channels, except car-ferry and general ferry are termed "local." The term is also applied to marine products, sand, and gravel taken directly from the Great Lakes.

**Intraterritory receipts and shipments.** These terms apply to traffic between ports in Puerto Rico and the Virgin Islands, U.S.A., which are considered a single unit.

#### Pertaining to Rivers, Federal and Private Canals, Connecting Channels, and Intracoastal Waterways

The terms "imports," "exports," "coastwise receipts," "coastwise shipments," "internal receipts," and "internal shipments" are used as at ports.

**Upbound and Downbound.** These terms are applied to movements within the confines of a river, intracoastal waterway, canal, or a segments of one of these channels as described in the "Section included" for each channel.

**Inbound and Outbound.** Traffic moving from one waterway into another is termed "outbound" in the case of the shipping waterway and "inbound" with respect to the receiving waterway.

**Through Traffic.** Traffic moving through a waterway to and from points on other waterways is termed "through traffic."

#### General Terms

Freight reported under the terms "car ferry" or "general ferry" is not directly included in the port or channel tonnage, but is separately stated and tabulated.

## INTRODUCTION

**IX**

### COMMODITY CLASSIFICATION FOR DOMESTIC WATERBORNE COMMERCE

**NOTE:** The commodity descriptions used in the statistical tables in this publication are abbreviated to conserve printing space of the following commodities:

Code No.	Item Name	Code No.	Item Name
Group 01-Farm Products			
0101	Cotton, raw	1911	Ordnance and accessories
0102	Barley and rye		Group 20-Food and Kindred Products
0103	Corn	2011	Meat, fresh, chilled, or frozen
0104	Oats	2012	Meat and meat products prepared or preserved, including canned meat products
0105	Rice	2014	Tallow, animal fats and oils
0106	Sorghum Grains	2015	Animal by-products, not elsewhere classified
0107	Wheat	2021	Dairy products, except dried milk and cream
0111	Soybeans	2022	Dried milk and cream
0112	Flaxseed	2031	Fish and fish products, including shellfish, prepared or preserved
0119	Oilseeds, not elsewhere classified		
0121	Tobacco, leaf	2034	Vegetables and preparations, canned and otherwise prepared and preserved
0122	Hay and Fodder	2039	Fruits, and fruit and vegetable juices, canned and otherwise prepared or preserved
0129	Field crops, not elsewhere classified	2041	Wheat flour and semolina
0131	Fresh fruits	2042	Animal feeds
0132	Bananas and plantains	2049	Grain mill products, not elsewhere classified
0133	Coffee, green and roasted (including instant)	2061	Sugar
0134	Cocoa beans	2062	Molasses
0141	Fresh and frozen vegetables	2081	Alcoholic beverages
0151	Live animals (livestock) except zoo animals, cats, dogs, etc.	2091	Vegetable oils, all grades; margarine and shortening
0161	Animals and animal products, not elsewhere classified	2092	Animal oils and fats, not elsewhere classified, including marine
0191	Miscellaneous farm products	2094	Groceries
Group 08-Forest Products			
0841	Crude rubber and allied gums	2099	Miscellaneous food products
0861	Forest products, not elsewhere classified		Group 21-Tobacco Products
Group 09-Fresh Fish and Other Marine Products			
0911	Fresh fish, except shellfish	2111	Tobacco manufactures
0912	Shellfish, except prepared or preserved		Group 22-Basic Textiles
0913	Menhaden	2211	Basic textile products, except textile fibers
0931	Marine shells, unmanufactured	2212	Textile fibers not elsewhere classified
Group 10-Metallic Ores			
1011	Iron ore and concentrates		Group 23-Apparel and Other Finished Textile Products Including Knit
1021	Copper ore and concentrates	2311	Apparel and other finished textile products, including knit
1051	Bauxite and other aluminum ores and concentrates		Group 24-Lumber and Wood Products Except Furniture
1061	Manganese ores and concentrates	2411	Logs
1091	Nonferrous metal ores and concentrates, not elsewhere classified	2412	Rafted logs
Group 11-Coal			
1121	Coal and lignite	2413	Fuel wood, charcoal, and wastes
Group 13-Crude Petroleum			
1311	Crude petroleum	2414	Timber, posts, poles, piling, and other wood in the rough
Group 14-Nonmetallic Minerals, Except Fuels			
1411	Limestone flux and calcareous stone	2415	Pulpwood, log
1412	Building stone, unworked	2416	Wood chips, staves, moldings, and excelsior
1442	Sand, gravel and crushed rock	2421	Lumber
1451	Clay, ceramic and refractory materials	2431	Veneer, plywood, and other worked wood
1471	Phosphate rock	2491	Wood manufactures, not elsewhere classified
1479	Natural fertilizer materials, not elsewhere classified		Group 25-Furniture and Fixtures
1491	Salt	2511	Furniture and fixtures
1492	Sulphur, dry		Group 26-Pulp, Paper and Allied Products
1493	Sulphur, liquid	2611	Pulp
1494	Gypsum, crude and plasters	2621	Standard newsprint paper
1499	Nonmetallic minerals, except fuels, not elsewhere classified		

# Waterborne Commerce of the United States, 1982

Code No.	Item Name	Code No.	Item Name		
<b>Group 26-Pulp, Paper and Allied Products (continued)</b>					
2631	Paper and paperboard	3211	Glass and glass products		
2691	Pulp, paper and paperboard products, not elsewhere classified	3241	Building cement		
<b>Group 27-Printed Matter</b>					
2711	Printed matter	3251	Structural clay products, including refractories		
<b>Group 28-Chemicals and Allied Products</b>					
2810	Sodium hydroxide (caustic soda)	3271	Lime		
2811	Crude products from coal tar, petroleum, and natural gas, except benzene and toluene	3281	Cut stone and stone products		
2812	Dyes, organic pigment, dyeing and tanning materials	3291	Miscellaneous nonmetallic mineral products		
2813	Alcohols	<b>Group 32-Stone, Clay, Glass and Concrete Products</b>			
2816	Radioactive and associated materials, including waste	3311	Pig iron		
2817	Benzene and toluene, crude and commercially pure	3312	Slag		
2818	Sulphuric acid	3313	Coke (coal and petroleum), petroleum pitches and asphalts, and naphtha and solvents		
2819	Basic chemicals and basic chemical products, not elsewhere classified	3314	Iron and steel ingots, and other primary forms, including blanks for tube and pipe, and sponge		
2821	Plastic materials, regenerated cellulose and synthetic resins, including film, sheeting and laminates	3315	Iron and steel bars, rods, angles, shapes and sections, including sheet piling		
2822	Synthetic rubber	3316	Iron and steel plates and sheets		
2823	Synthetic (man-made) fiber	3317	Iron and steel pipe and tube		
2831	Drugs (biological products, medicinal chemicals, botanical products and pharmaceutical preparations)	3318	Ferroalloys		
2841	Soap, detergents, and cleaning preparations; perfumes, cosmetics, and other toilet preparations	3319	Primary iron and steel products, not elsewhere classified including castings in the rough		
2851	Paints, varnishes, lacquers, enamels, and allied products	3321	Nonferrous metals primary smelter products, basic shapes, wire castings and forgings, except copper, lead, zinc and aluminum		
2861	Gum and wood chemicals	3322	Copper and copper alloys, whether or not refined unworked		
2871	Nitrogenous chemical fertilizers, except mixtures	3323	Lead and zinc including alloys, unworked		
2872	Potassic chemical fertilizers, except mixtures	3324	Aluminum and aluminum alloys, unworked		
2873	Phosphatic chemical fertilizers, except mixtures	<b>Group 33-Primary Metal Products</b>			
2876	Insecticides, fungicides, pesticides, and disinfectants	3331	Pig iron		
2879	Fertilizers and fertilizer materials, not elsewhere classified	3312	Slag		
2891	Miscellaneous chemical products	3313	Coke (coal and petroleum), petroleum pitches and asphalts, and naphtha and solvents		
<b>Group 29-Petroleum and Coal Products</b>					
2911	Gasoline, including additives	3314	Iron and steel ingots, and other primary forms, including blanks for tube and pipe, and sponge		
2912	Jet fuel	3315	Iron and steel bars, rods, angles, shapes and sections, including sheet piling		
2913	Kerosene	3316	Iron and steel plates and sheets		
2914	Distillate fuel oil	3317	Iron and steel pipe and tube		
2915	Residual fuel oil	3318	Ferroalloys		
2916	Lubricating oils and greases	3319	Primary iron and steel products, not elsewhere classified including castings in the rough		
2917	Naphtha, mineral spirits, solvents, not elsewhere classified	3321	Nonferrous metals primary smelter products, basic shapes, wire castings and forgings, except copper, lead, zinc and aluminum		
2918	Asphalt, tar, and pitches	3322	Copper and copper alloys, whether or not refined unworked		
2920	Coke, including petroleum coke	3323	Lead and zinc including alloys, unworked		
2921	Liquefied petroleum gases, coal gases, natural gas, and natural gas liquids	3324	Aluminum and aluminum alloys, unworked		
2951	Asphalt building materials	<b>Group 34-Fabricated Metal Products. Except Ordnance, Machinery and Transportation Equipment</b>			
2991	Petroleum and coal products, not elsewhere classified	3411	Fabricated metal products, except ordnance, machinery, and transportation equipment		
<b>Group 30-Rubber and Miscellaneous Plastics Products</b>					
3011	Rubber and miscellaneous plastic products	<b>Group 35-Machinery, Except Electrical</b>			
<b>Group 31-Leather and Leather Products</b>					
3111	Leather and leather products	3511	Machinery, except electrical		
<b>Group 32-Stone, Clay, Glass and Concrete Products</b>					
<b>Group 33-Primary Metal Products</b>					
<b>Group 34-Fabricated Metal Products. Except Ordnance, Machinery and Transportation Equipment</b>					
<b>Group 35-Machinery, Except Electrical</b>					
<b>Group 36-Electrical Machinery, Equipment and Supplies</b>					
<b>Group 37-Transportation Equipment</b>					
<b>Group 38-Instruments, Photographic and Optical Goods, Watches and Clocks</b>					
<b>Group 39-Miscellaneous Products of Manufacturing</b>					
<b>Group 40-Waste and Scrap Materials</b>					
<b>Group 41-Parts and Equipment</b>					
4011	Iron and steel scrap	3711	Motor vehicles, parts and equipment		
4012	Nonferrous metal scrap	3721	Aircraft and parts		
4022	Textile waste, scrap, and sweepings	3731	Ships and boats		
4024	Paper waste and scrap	3791	Miscellaneous transportation equipment		
4029	Waste and scrap, not elsewhere classified	<b>Group 42-Parts and Equipment</b>			

## INTRODUCTION

XI

Code No.	Item Name
Group 41-Special Items	
4111	Water
4112	Miscellaneous shipments not identifiable by commodity
4113	LCL freight
4118	Materials used in waterway improvement, Government materials
4119	Empty containers
9999*	Department of Defense controlled cargo and special category items

\* Cargoes exported on Department of Defense controlled vessels (other than goods for the use of U.S. Armed Forces abroad) and non-Department of Defense shipments of military component items (abbreviated SC1) for which commodity detail is not furnished to the Corps of Engineers.

---

---

**SECTION 1**  
**FREIGHT TRAFFIC**

---

---

# LOS ANGELES, CA, DISTRICT

3

SAN DIEGO HARBOR, CALIF.

SECTION INCLUDED: ENTIRE HARBOR, CONTROLLING AND PROJECT DEPTHS: 42 FEET IN ENTRANCE CHANNELS 35 TO 42 FEET IN BAY CHANNEL, ANCHORAGES AND TURNING BASINS; 10 TO 16 FEET IN OTHER CHANNELS AND AREAS.

### COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1973-----	2,063,358	1978-----	2,571,402
1974-----	2,115,074	1979-----	2,401,349
1975-----	2,351,306	1980-----	2,188,859
1976-----	2,188,617	1981-----	2,650,292
1977-----	2,264,685	1982-----	2,398,103

### FREIGHT TRAFFIC, 1982

(SHORE TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		IMPORTS	EXPORTS	COASTWISE	
				RECEIPTS	SHIPMENTS
TOTAL-----	2,398,103	196,510	1,169,927	817,530	48,514
0101 COTTON, RAGS-----	7,547	7,547	-----	-----	-----
0107 WHEAT-----	292,542	292,542	-----	-----	-----
0129 FIELD CROPS, NEC-----	453	453	453	-----	-----
0861 FOREST PRODUCTS, NEC-----	86,757	423	-----	-----	86,334
0911 FRESH FISH, EXCEPT SHELLFISH-----	80,130	1,470	758	-----	77,902
0912 SHELLFISH, EXCEPT PREPARED-----	1,386	-----	-----	-----	1,386
1021 COPPER ORE AND CONCENTRATES-----	566,089	-----	566,089	-----	-----
1471 PHOSPHATE ROCK-----	5,512	5,512	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	4	4	4	-----	-----
2062 MOLASSES-----	18,735	13,056	5,679	-----	-----
2081 ALCOHOLIC BEVERAGES-----	40	44	-----	-----	-----
2090 MISCELLANEOUS FOOD PRODUCTS-----	21	21	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	23	23	-----	-----	-----
2311 APPAREL-----	93	93	93	-----	-----
2421 LUMBER-----	121,665	4,780	-----	116,877	-----
2491 WOOD MANUFACTURES, NEC-----	4	4	4	-----	-----
2631 PAPER AND PAPERBOARD-----	45,170	45,170	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	1	1	1	-----	-----
2711 PRINTED MATTER-----	1	1	1	-----	-----
2810 BASIC CHEMICALS AND PROD, NEC-----	18,971	-----	18,971	-----	-----
2821 PLASTIC MATERIALS-----	19	19	-----	-----	-----
2861 SUM AND WOOD CHEMICALS-----	5,600	-----	5,600	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	65,890	55,980	9,910	-----	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	182,307	-----	182,307	-----	-----
2912 JET FUEL-----	129,137	-----	129,137	-----	-----
2914 DISTILLATE FUEL OIL-----	15,466	-----	15,388	14,402	1,064
2915 RESIDUAL FUEL OIL-----	596,254	-----	591,604	39,262	-----
2916 ASPHALT, TAR, AND PITCHES-----	100	-----	100	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	7	7	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	6	6	6	-----	-----
3241 BUILDING CEMENT-----	69,787	69,581	206	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	6	6	6	-----	-----
3411 FABRICATED METAL PRODUCTS-----	93	93	93	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	17	11	6	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	49	43	6	-----	-----
3721 AIRCRAFT AND PARTS-----	6,004	-----	4	-----	6,000
3731 SHIPS AND BOATS-----	50	6	42	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	2	2	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	91	91	91	-----	-----
4011 IRON AND STEEL SCRAP-----	79,760	-----	79,769	-----	-----
4112 COMMODITIES, NEC-----	2,233	85	-----	-----	2,168
9999 DEPARTMENT OF DEFENSE AND SCI-----	20	-----	20	-----	-----

LONG BEACH HARBOR, CALIF.

SECTION INCLUDED: ENTIRE HARBOR WITHIN THE CITY LIMITS OF LONG BEACH, CONTROLLING DEPTH: 62 FEET IN LONG BEACH CHANNEL AND ENTRANCE CHANNEL; 50 FEET TO 55 FEET IN OTHER CHANNELS AND BASINS, PROJECT DEPTH: 35 FEET IN LONG BEACH CHANNEL AND OTHER CHANNELS AND BASINS.

### COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1973-----	27,133,022	1978-----	31,586,404
1974-----	26,693,767	1979-----	33,347,303
1975-----	26,587,134	1980-----	38,779,672
1976-----	31,457,099	1981-----	43,537,011
1977-----	32,985,424	1982-----	42,010,256

\* PASSENGERS--544,071.

## Waterborne Commerce of the United States, 1982

LONG BEACH HARBOR, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
		COASTWISE		INTERNAL		RECEIPTS	SHIPMENTS		
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS				
TOTAL-----	52,010,254	7,310,512	12,453,698	16,299,512	1,001,200	2,393,712	442,659	2,108,871	
0101 COTTON, RAW-----	463,291	-----	463,291	-----	-----	-----	-----	-----	
0103 CORN-----	720,451	0	720,407	-----	38	-----	-----	-----	
0104 OATS-----	413	-----	613	-----	-----	-----	-----	-----	
0105 RICE-----	7,201	4,300	2,876	-----	23	-----	-----	-----	
0106 BORGHUM GRAINS-----	332,079	-----	332,079	-----	-----	-----	-----	-----	
0107 NHEAT-----	207,719	3	207,716	-----	-----	-----	-----	-----	
0111 SOYBEANS-----	308,828	5	308,823	-----	-----	-----	-----	-----	
0119 OILSEEDS, NEC-----	9,960	522	9,438	-----	-----	-----	-----	-----	
0121 TOBACCO, LEAF-----	14,278	13,801	477	-----	356	-----	-----	-----	
0122 HAY AND PODDER-----	356	-----	-----	-----	356	-----	-----	-----	
0124 FIELD CROPS, NEC-----	3,298	565	2,735	-----	-----	-----	-----	-----	
0131 FRESH FRUITS-----	289,469	356	288,539	-----	574	-----	-----	-----	
0132 BANANAS AND PLANTAINS-----	254,299	254,299	-----	-----	-----	-----	-----	-----	
0133 COFFEE-----	16,907	16,039	830	38	-----	-----	-----	-----	
0134 COCOA BEANS-----	1,902	1,902	-----	-----	-----	-----	-----	-----	
0141 FRESH AND FROZEN VEGETABLES-----	22,833	3,291	19,542	-----	-----	-----	-----	-----	
0161 ANIMALS AND PRODUCTS, NEC-----	10,831	3,898	6,937	-----	-----	-----	-----	-----	
0191 MISCELLANEOUS FARM PRODUCTS-----	755	343	412	-----	-----	-----	-----	-----	
0841 CRUDE RUBBER AND ALLIED GUMS-----	8,440	8,388	52	-----	-----	-----	-----	-----	
0861 FOREST PRODUCTS, NEC-----	11,159	9,511	1,646	-----	-----	-----	-----	-----	
0911 FRESH FISH, EXCEPT SHELLFISH-----	35,968	34,419	1,287	-----	262	-----	-----	-----	
0912 SHELLFISH, EXCEPT PREPARED-----	12,216	9,282	2,877	22	-----	35	-----	-----	
1011 IRON ORE AND CONCENTRATES-----	25	-----	25	-----	-----	-----	-----	-----	
1051 ALUMINUM ORES, CONCENTRATES-----	5,353	4,953	400	-----	-----	-----	-----	-----	
1061 MANGANESE ORES, CONCENTRATES-----	27,545	27,545	-----	-----	-----	-----	-----	-----	
1091 NONFERROUS ORES, CONCENT., NEC-----	25,329	16,432	6,897	-----	-----	-----	-----	-----	
1121 COAL AND LIGNITE-----	899,972	-----	899,939	-----	53	-----	-----	-----	
1311 CRUDE PETROLEUM-----	15,712,498	1,183,054	-----	14,383,628	122,769	23,047	-----	-----	
1411 LIMESTONE-----	303,903	302,871	1,005	-----	27	-----	-----	-----	
1412 BUILDING STONE, UNWORKED-----	183	183	-----	-----	-----	-----	-----	-----	
1442 SAND, GRAVEL, CRUSHED ROCK-----	3,200	544	2,656	-----	-----	-----	-----	-----	
1481 CLAY-----	8,448	1,249	7,199	-----	-----	-----	-----	-----	
1471 PHOSPHATE ROCK-----	1,322	-----	1,322	-----	-----	-----	-----	-----	
1491 SALT-----	125,136	124,639	497	-----	-----	-----	-----	-----	
1492 SULPHUR, DRY-----	1,635	-----	1,635	-----	-----	-----	-----	-----	
1494 GYPSUM, CRUDE AND PLASTERS-----	194	-----	194	-----	-----	-----	-----	-----	
1499 NONMETALLIC MINERALS, NEC-----	102,538	429	101,635	-----	474	-----	-----	-----	
1911 ORDNANCE AND ACCESSORIES-----	1,405	224	1,181	-----	-----	-----	-----	-----	
2011 MEAT, FRESH, CHILLED, FROZEN-----	97,681	40,281	57,398	-----	12	-----	-----	-----	
2012 MEAT AND PRODUCTS, NEC-----	7,991	6,325	1,066	-----	-----	-----	-----	-----	
2014 TALLOW, ANIMAL FATS AND OILS-----	53,638	-----	53,638	-----	-----	-----	-----	-----	
2015 ANIMAL BY-PRODUCTS, NEC-----	63,972	45	63,927	-----	-----	-----	-----	-----	
2021 DAIRY PRODUCTS, NEC-----	2,218	1,348	865	-----	5	-----	-----	-----	
2022 DRIED MILK AND CREAM-----	2,181	41	2,140	-----	-----	-----	-----	-----	
2031 FIBR & SHELLFISH, PREPARED-----	23,504	17,480	6,040	24	-----	-----	-----	-----	
2034 VEGETABLES AND PREP, NEC-----	69,729	55,076	9,623	-----	5,030	-----	-----	-----	
2039 PREP FRUIT AND VEG JUICE, NEC-----	86,098	37,655	48,192	90	161	-----	-----	-----	
2061 WHEAT FLOUR AND SEMOLINA-----	500	-----	401	-----	99	-----	-----	-----	
2062 MOLASSES-----	104,259	989	102,906	-----	364	-----	-----	-----	
2064 GRAIN MILL PRODUCTS, NEC-----	12,610	8,990	3,586	-----	34	-----	-----	-----	
2065 SUGAR-----	281	122	159	-----	-----	-----	-----	-----	
2066 MOLASSES-----	22,452	6,566	-----	-----	15,886	-----	-----	-----	
2081 ALCOHOLIC BEVERAGES-----	90,525	75,935	4,623	-----	9,767	-----	-----	-----	
2091 VEGETABLE OILS, MARG, SHORT-----	64,371	36,643	27,589	-----	139	-----	-----	-----	
2092 ANIMAL OILS AND FATS, NEC-----	124	121	3	-----	-----	-----	-----	-----	
2111 TOBACCO MANUFACTURES-----	82,087	35,774	30,837	20	6,456	-----	-----	-----	
2211 BASIC TEXTILE PRODUCTS-----	3,840	3,488	350	-----	2	-----	-----	-----	
2212 TEXTILE FIBERS, NEC-----	70,466	49,288	12,659	-----	8,519	-----	-----	-----	
2311 APPAREL-----	4,191	1,414	7,777	-----	-----	-----	-----	-----	
2411 LOGS-----	122,360	118,247	4,071	15	27	-----	-----	-----	
2413 FUEL WOOD, CHARCOAL, WASTES-----	2,101	142	1,959	-----	-----	-----	-----	-----	
2421 TIMBER, POSTS, POLES, PILING-----	5	59	26	-----	-----	-----	-----	-----	
2422 LUMBER-----	41	2	23	-----	16	-----	-----	-----	
2424 WOOD CHIPS, STAVES, HOLDINGS-----	3,132	3,055	77	-----	-----	-----	-----	-----	
2425 VENEER, PLYWOOD, WORKED WOOD-----	160,130	48,631	3,795	107,681	23	-----	-----	-----	
2431 WOOD MANUFACTURES, NEC-----	34,410	33,780	404	-----	234	-----	-----	-----	
2491 WOOD MANUFACTURES, NEC-----	23,974	20,196	3,469	121	186	-----	-----	-----	
2511 FURNITURE AND FIXTURES-----	91,777	81,777	2,629	2,525	4,851	-----	-----	-----	
2611 PULP-----	1,106	227	879	-----	-----	-----	-----	-----	
2631 PAPER AND PAPERBOARD-----	223,293	209,290	13,545	110	346	-----	-----	-----	
2641 PULP AND PAPER PRODUCTS, NEC-----	25,140	8,455	10,633	-----	6,052	-----	-----	-----	
2711 PRINTED MATTER-----	16,466	9,006	6,969	-----	493	-----	-----	-----	
2810 SODIUM HYDROXIDE-----	17,100	-----	-----	17,100	-----	-----	-----	-----	
2811 CRUDE TAR, OIL, GAB PRODUCTS-----	2,701	-----	2,781	-----	-----	-----	-----	-----	
2812 DYES, PIGMENT, TANNING MATS-----	356	-----	356	-----	-----	-----	-----	-----	
2813 ALCOHOL-----	121	-----	121	-----	-----	-----	-----	-----	
2816 RADIOACTIVE MATERIALS, WASTES-----	5	5	-----	-----	-----	-----	-----	-----	
2817 BENZENE AND TOLUENE-----	40,469	-----	-----	38,772	-----	1,607	-----	-----	
2819 BASIC CHEMICALS AND PROD, NEC-----	720,125	47,430	337,204	106,891	128,600	-----	-----	-----	
2821 PLASTIC MATERIALS-----	212,997	42,466	170,262	-----	269	-----	-----	-----	
2822 SYNTHETIC RUBBER-----	9,814	-----	9,814	-----	-----	-----	-----	-----	
2823 SYNTHETIC (MAN-MADE) FIBERS-----	5,794	1,817	3,939	-----	38	-----	-----	-----	
2841 SOAP-----	4,996	2,108	2,553	-----	335	-----	-----	-----	
2851 PAINTS-----	16,738	1,573	10,984	-----	4,177	-----	-----	-----	
2861 GUM AND WOOD CHEMICALS-----	23,077	11,272	8,689	180	2,936	-----	-----	-----	
2871 NITROGENOUS CHEM FERTILIZERS-----	1,856	324	1,534	-----	-----	-----	-----	-----	
2872 POTASSIUM CHEM FERTILIZERS-----	15,655	4,172	58	-----	11,425	-----	-----	-----	
2873 PHOSPHATIC CHEM FERTILIZERS-----	1,085	-----	985	-----	100	-----	-----	-----	
2876 INSECTICIDES, DISINFECTANTS-----	134,226	116	139,106	-----	82	-----	-----	-----	
2877 FERTILIZER AND MATERIALS, NEC-----	6,148	2,386	3,680	-----	33,711	-----	-----	-----	
2879 FERTILIZER AND MATERIALS, NEC-----	36,430	274	4,445	-----	4,981	-----	-----	-----	
2891 MISCELLANEOUS CHEMICAL PROD-----	58,787	7,341	21,458	25,007	-----	-----	-----	-----	

**LOS ANGELES, CA, DISTRICT**

5

LONG BEACH HARBOR, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1982--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL	
		COASTWISE		INTERNAL			
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS		
2911 GASOLINE-----	544,908	159,834	68,074	205,732	98,894	11,374	
2912 JET FUEL-----	299,925	-----	-----	143,043	156,842	-----	
2913 KEROSENE-----	26	-----	25	-----	-----	-----	
2914 DISTILLATE FUEL OIL-----	2,234,048	458,630	218,101	122,400	103,157	7,121 1,324,630	
2915 RESIDUAL FUEL OIL-----	7,169,711	379,817	2,212,425	909,766	175,850	2,231,303 427,021 773,525	
2916 LUBRICATING OILS AND GREASES-----	860,311	288,781	115,451	56,079	-----	-----	
2917 NAPHTHA, PETROLEUM SOLVENTS-----	24,130	-----	-----	14,565	-----	6,846 2,726	
2918 ASPHALT, TAR, AND PITCHES-----	3,717	-----	240	-----	3,677	-----	
2920 COKE, PETROLEUM COKE-----	3,995,085	3,995,085	-----	-----	-----	-----	
2921 LIQUEFIED GASES-----	457	-----	457	-----	-----	-----	
2951 ASPHALT BUILDING MATERIALS-----	1,265	-----	750	-----	513	-----	
2991 PETROLEUM AND COAL PROD, NEC-----	20,239	54	674	2,013	564	1,456 6,748 10,430	
3011 RUBBER AND MISC PLASTIC PROD-----	138,181	120,079	16,738	-----	1,304	-----	
3111 LEATHER AND LEATHER PRODUCTS-----	93,988	86,223	7,725	-----	-----	-----	
3211 GLASS AND GLASS PRODUCTS-----	25,100	17,265	3,076	-----	3,959	-----	
3261 BUILDING CEMENT-----	154,716	117,798	1,435	35,225	258	-----	
3281 STRUCTURAL CLAY PRODUCTS-----	32,087	30,603	1,478	-----	6	-----	
3271 LIME-----	48	1	36	-----	0	-----	
3281 CUT STONE AND STONE PRODUCTS-----	19,558	19,506	152	-----	-----	-----	
3291 MISC NONMETALLIC MINERAL PROD-----	87,686	81,543	5,631	-----	512	-----	
3312 SLAG-----	24	-----	-----	-----	24	-----	
3313 IRON AND STEEL PRIMARY FORMS-----	309,551	309,513	38	-----	-----	-----	
3315 IRON, STEEL SHAPES, EXC SHEET-----	941,180	938,489	2,651	-----	-----	-----	
3317 IRON AND STEEL PLATES, SHEETS-----	23,554	11,747	11,759	-----	68	-----	
3319 IRON AND STEEL PIPE AND TUBE-----	251,730	246,670	8,405	8	634	5 8	
3319 FERROALLOYS-----	19,965	19,786	179	-----	-----	-----	
3319 IRON AND STEEL PRODUCTS, NEC-----	10,529	9,501	1,028	-----	-----	-----	
3321 NONFERROUS METALS, NEC-----	16,113	7,195	8,905	-----	13	-----	
3322 COPPER ALLOYS, UNWORKED-----	9,186	7,252	1,912	22	-----	-----	
3323 LEAD AND ZINC, UNWORKED-----	9,139	7,827	1,312	-----	-----	-----	
3324 ALUMINUM AND ALLOYS, UNWORKED-----	27,664	18,580	8,991	-----	93	-----	
3411 FABRICATED METAL PRODUCTS-----	262,655	260,162	19,566	179	2,728	8 7 5	
3511 MACHINERY, EXCEPT ELECTRICAL-----	520,624	217,558	102,427	289	512	3 30 5	
3611 ELECTRICAL MACH AND EQUIP-----	390,848	359,633	30,221	17	677	-----	
3711 MOTOR VEHICLES, PARTS, EQUIP-----	351,781	332,816	18,562	149	432	-----	
3721 AIRCRAFT AND PARTS-----	8,660	345	2,317	6,000	-----	-----	
3731 SHIPS AND BOATS-----	4,470	2,837	1,612	11	10	-----	
3791 MISC TRANSPORTATION EQUIPMENT-----	2,120	661	1,301	2	156	-----	
3811 INSTR, TIME, PHOTO, OPT GOODS-----	26,596	19,890	6,706	-----	-----	-----	
3911 MISC MANUFACTURED PRODUCTS-----	172,107	163,388	8,307	9	601	----- 2	
4011 IRON AND STEEL SCRAP-----	70,893	775	69,982	136	-----	-----	
4012 NONFERROUS METAL SCRAP-----	40,072	1,785	18,287	-----	-----	-----	
4022 TEXTILE WASTE, SCRAP, SHEEP-----	5,419	1	5,416	-----	-----	-----	
4022 PAPER WASTE AND SCRAP-----	427,094	427,094	-----	-----	-----	-----	
4029 WASTE AND SCRAP, NEC-----	73	-----	70	-----	1	2	
4111 WATER-----	562	-----	-----	-----	312	250	
4112 COMMODITIES, NEC-----	61,155	16,039	4,235	3,822	37,021	16 22	
4119 EMPTY CONTAINERS-----	27	-----	-----	22	5	-----	
9999 DEPARTMENT OF DEFENSE AND SCI-----	2,596	-----	2,596	-----	-----	-----	

LOS ANGELES HARBOR, CALIF.

SECTION INCLUDED: ENTIRE HARBOR WITHIN THE CITY LIMITS OF LOS ANGELES. CONTROLLING DEPTH: 35 TO 51 FEET IN ENTRANCE AND OUTER HARBOR CHANNELS AND BASINS; 35 FEET IN LOS ANGELES CHANNEL AND INNER HARBOR BASINS AND CHANNELS. PROJECT DEPTH: 45 TO 51 FEET IN ENTRANCE AND OUTER HARBOR CHANNELS AND BASINS; 45 FEET IN LOS ANGELES CHANNEL AND INNER HARBOR BASINS AND CHANNELS.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR		TONS	PASSENGERS
			TONS	PASSENGERS		
1973-----	25,977,891	700,132	1978-----	-----	32,827,478	586,831
1974-----	25,919,567	85,062	1979-----	-----	31,740,483	624,289
1975-----	30,746,362	117,312	1980-----	-----	30,151,053	699,175
1976-----	30,931,489	342,466	1981-----	-----	31,526,075	712,290
1977-----	31,325,506	603,687	1982-----	-----	35,099,929	582,302

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL	
		COASTWISE		INTERNAL			
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS		
TOTAL-----	33,099,929	5,313,255	7,001,174	10,580,595	5,034,878	630,450 2,763,015 1,759,982	
0101 COTTON, RAN-----	318,014	-----	318,014	-----	-----	-----	
0102 BARLEY AND RYE-----	38	21	17	-----	-----	-----	
0103 CORN-----	29,928	5	29,923	-----	-----	-----	
0105 RICE-----	5,692	5,098	45	-----	549	-----	
0106 BORGHUS GRAINS-----	261	-----	261	-----	-----	-----	
0107 WHEAT-----	14,940	-----	14,940	-----	-----	-----	
0111 SOYBEANS-----	4,381	39	4,342	-----	-----	-----	
0119 OILSEEDS, NEC-----	23,789	221	23,568	-----	-----	-----	
0121 TOBACCO, LEAF-----	20,565	17,619	2,746	-----	-----	-----	
0129 FIELD CROPS, NEC-----	10,765	4,749	6,016	-----	-----	-----	
0131 FRESH FRUIT-----	161,852	117	102,750	48,071	10,914	-----	
0132 BANANAS AND PLANTAINS-----	285,284	285,284	-----	-----	-----	-----	

## Waterborne Commerce of the United States, 1982

LOS ANGELES HARBOR, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1982--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
		IMPORTS	EXPORTS	COASTWISE		INTERNAL			
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
8133 COFFEE-----	18,387	18,273	92	-----	22	-----	-----	-----	
8134 COCOA BEANS-----	319	319	-----	-----	-----	-----	-----	-----	
8161 FRESH AND FROZEN VEGETABLES-----	59,095	2,197	12,494	738	43,646	-----	-----	-----	
8151 LIVE ANIMALS-----	248	-----	1	-----	247	-----	-----	-----	
8161 ANIMALS AND PRODUCTS, NEC-----	10,408	1,962	6,705	48	1,623	-----	-----	-----	
8191 MISCELLANEOUS FARM PRODUCTS-----	1,967	395	362	1,210	-----	-----	-----	-----	
8861 CRUDE RUBBER AND ALLIED GUMS-----	12,938	12,402	536	-----	-----	-----	-----	-----	
8861 FOREST PRODUCTS, NEC-----	6,592	3,951	1,279	639	723	-----	-----	-----	
8911 FRESH FISH, EXCEPT SHELLFISH-----	213,399	34,713	2,223	-----	-----	176,463	-----	-----	
8912 SHELLFISH, EXCEPT PREPARED-----	30,050	11,800	4,025	1,057	1,940	11,328	-----	-----	
1051 ALUMINUM ORES, CONCENTRATES-----	10,484	9,530	946	-----	-----	-----	-----	-----	
1091 NONFERROUS ORES, CONCENT., NEC-----	14,657	10,008	3,159	-----	690	-----	-----	-----	
1121 COAL AND LIGNEITE-----	1,935,690	180	1,935,510	-----	-----	-----	-----	-----	
1311 CRUDE PETROLEUM-----	5,070,678	1,078,054	-----	3,902,125	67,452	-----	23,047	-----	
1411 LIMESTONE-----	2,686	4	2,682	-----	-----	-----	-----	-----	
1412 BUILDING STONE, UNWORKED-----	221	-----	221	-----	-----	-----	-----	-----	
1442 SAND, GRAVEL, CRUSHED ROCK-----	17,666	15,719	1,949	-----	-----	-----	-----	-----	
1451 CLAY-----	6,243	1,924	3,843	-----	476	-----	-----	-----	
1491 SALT-----	300	86	146	-----	68	-----	-----	-----	
1492 SULPHUR, DRY-----	7,152	-----	7,152	-----	-----	-----	-----	-----	
1494 GYPSUM, CRUDE AND PLASTER-----	3,884	-----	-----	3,884	-----	-----	-----	-----	
1499 NONMETALLIC MINERALS, NEC-----	540,022	13,675	526,347	-----	-----	-----	-----	-----	
1911 ORDNANCE AND ACCESORIES-----	2,217	1,778	639	-----	-----	-----	-----	-----	
2011 MEAT, FRESH, CHILLED, FROZEN-----	170,368	20,034	100,766	566	49,018	-----	-----	-----	
2012 MEAT AND PRODUCTS, NEC-----	14,588	10,309	4,279	-----	-----	-----	-----	-----	
2014 TALLOW, ANIMAL FATS AND OILS-----	38,011	-----	38,011	-----	-----	-----	-----	-----	
2015 ANIMAL BY-PRODUCTS, NEC-----	110,486	47	110,055	388	-----	-----	-----	-----	
2021 DAIRY PRODUCTS, NEC-----	5,585	2,056	423	-----	3,066	-----	-----	-----	
2022 DRIED MILK AND CREAM-----	99	28	86	-----	-----	-----	-----	-----	
2031 FISH AND SHELLFISH, PREPARED-----	26,363	21,051	4,532	-----	-----	-----	-----	-----	
2039 PREP FRUIT AND VEG JUICE, NEC-----	69,292	23,885	3,695	4,257	37,455	-----	-----	-----	
2041 WHEAT FLOUR AND SEMOLINA-----	102,688	67,680	42,235	88,428	4,105	-----	-----	-----	
2042 ANIMAL FEEDS-----	463	-----	185	38	240	-----	-----	-----	
2049 GRAIN MILL PRODUCTS, NEC-----	108,940	851	139,479	-----	20,610	-----	-----	-----	
2051 SUGAR-----	23,328	4,177	18,210	-----	941	-----	-----	-----	
2062 MOLASSES-----	92	21	17	-----	54	-----	-----	-----	
2081 ALCOHOLIC BEVERAGES-----	153,392	44,492	-----	53,770	-----	-----	15,886	39,244	
2091 VEGETABLE OILS, MARG, SHORT-----	100,746	45,943	4,656	409	49,738	-----	-----	-----	
2092 ANIMAL OILS AND FATS, NEC-----	66,273	16,939	38,320	-----	11,014	-----	-----	-----	
2099 GROCERIES-----	102	99	3	-----	-----	-----	-----	-----	
2111 TOBACCO MANUFACTURES-----	32,229	-----	-----	303	31,926	-----	-----	-----	
2111 MISCELLANEOUS FOOD PRODUCTS-----	66,694	20,809	22,374	873	14,358	-----	-----	-----	
2211 BASIC TEXTILE PRODUCTS-----	2,767	1,361	1,220	1	205	-----	-----	-----	
2212 TEXTILE FIBERS, NEC-----	61,712	56,433	5,458	8	1,813	-----	-----	-----	
2311 APPAREL-----	4,222	70	4,152	-----	-----	-----	-----	-----	
2411 LOGS-----	64,339	83,091	648	-----	-----	-----	-----	-----	
2413 FUEL WOOD, CHARCOAL, HABESTS-----	590	237	353	-----	150	-----	-----	-----	
2414 TIMBER, POSTS, POLES, PILING-----	493	343	-----	-----	-----	-----	-----	-----	
2416 WOOD CHIPS, STAVES, HOLDINGS-----	2	2	-----	-----	-----	-----	-----	-----	
2421 LUMBER, PLYWOOD, WORKED WOOD-----	156	51	105	-----	-----	-----	-----	-----	
2431 VENEER, PLYWOOD, WORKED WOOD-----	84,522	50,414	1,013	32,039	1,056	-----	-----	-----	
2491 WOOD MANUFACTURES, NEC-----	34,620	33,981	375	-----	264	-----	-----	-----	
2511 FURNITURE AND FIXTURES-----	23,457	18,280	4,559	-----	618	-----	-----	-----	
2611 PULP-----	71,576	43,975	1,705	14,752	11,054	-----	-----	-----	
2631 PAPER AND PAPERBOARD-----	3,243	504	2,739	-----	-----	-----	-----	-----	
2691 PULP AND PAPER PRODUCTS, NEC-----	77,502	57,407	16,691	-----	3,404	-----	-----	-----	
2711 PRINTED MATTER-----	31,173	3,083	7,696	-----	19,994	-----	-----	-----	
2810 SODIUM HYDROXIDE-----	13,234	8,183	2,021	-----	2,230	-----	-----	-----	
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	146,130	-----	-----	142,957	3,181	-----	-----	-----	
2812 DYED, PIGMENT, TANNING MATS-----	37,346	-----	3,394	6,925	27,027	-----	-----	-----	
2813 ALCOHOLS-----	209	-----	209	-----	-----	-----	-----	-----	
2016 RADIOACTIVE MATERIALS, WASTES-----	14,688	-----	55	14,122	711	-----	-----	-----	
2017 BENZENE AND TOLUENE-----	22	-----	22	-----	-----	-----	-----	-----	
2019 BASIC CHEMICALS AND PROD, NEC-----	13,949	-----	-----	12,252	-----	1,697	-----	-----	
2021 PLASTIC MATERIALS-----	353,858	65,010	225,764	58,013	4,671	-----	-----	-----	
2022 SYNTHETIC RUBBER-----	102,392	34,758	66,224	-----	1,410	-----	-----	-----	
2023 SYNTHETIC (MAN-MADE) FIBERS-----	6,757	-----	6,757	-----	-----	-----	-----	-----	
2031 DRUGS-----	5,639	3,743	1,896	-----	-----	-----	-----	-----	
2041 SOAP-----	5,693	1,902	1,610	-----	2,381	-----	-----	-----	
2051 PAINTS-----	25,762	1,926	7,166	-----	17,070	-----	-----	-----	
2061 SUM AND WOOD CHEMICALS-----	22,133	12,720	4,726	-----	8,687	-----	-----	-----	
2071 NITROGENOUS CHEM FERTILIZERS-----	657	135	505	17	-----	-----	-----	-----	
2072 POTASSIC CHEM FERTILIZERS-----	17,005	9,993	706	2,095	4,211	-----	-----	-----	
2073 PHOSPHATIC CHEM FERTILIZERS-----	97	-----	97	-----	-----	-----	-----	-----	
2076 INSECTICIDES, DISINFECTANTS-----	25,070	34	25,036	-----	-----	-----	-----	-----	
2079 FERTILIZER AND MATERIALS, NEC-----	5,556	2,338	2,042	9	1,167	-----	-----	-----	
2091 MISCELLANEOUS CHEMICAL PROD-----	653	237	816	-----	-----	-----	-----	-----	
2091 GASOLINE-----	51,651	11,193	21,975	16,171	512	-----	-----	-----	
2092 DISTILLATE FUEL OIL-----	1,630,274	92,039	653	1,217,009	317,199	-----	11,374	-----	
2092 JET FUEL-----	304,707	-----	-----	181,544	203,163	-----	-----	-----	
2093 KEROSENE-----	61,619	49,595	5	-----	12,019	-----	-----	-----	
2094 DISTILLATE FUEL OIL-----	3,906,726	-----	511,691	1,641,703	1,585,816	7,121	103,157	137,150	
2095 RESIDUAL FUEL OIL-----	10,137,200	97,889	1,025,097	2,704,813	2,075,718	827,021	2,231,303	1,975,759	
2096 LUBRICATING OILS AND GREASES-----	803,607	336,022	99,994	295,520	71,871	-----	-----	-----	
2097 ASPHALT, TAR, AND PITCHES-----	37,318	-----	439	75,309	-----	2,726	6,888	-----	
2098 COKE, PETROLEUM COKE-----	251,052	155	250,807	-----	-----	36,879	-----	-----	
2099 LIQUEFIED CASEO-----	316	-----	316	-----	-----	-----	-----	-----	
2100 ASPHALT BUILDING MATERIALS-----	858	-----	600	-----	258	-----	-----	-----	
2001 PETROLEUM AND COAL PROD, NEC-----	18,694	219	364	1,655	6,963	4,048	1,456	8,109	
3031 RUBBER AND MISC PLASTIC PROD-----	180,300	120,478	15,255	253	4,314	-----	-----	-----	
3111 LEATHER AND LEATHER PRODUCTS-----	52,820	50,372	2,448	-----	-----	-----	-----	-----	
3211 GLASS AND GLASS PRODUCTS-----	25,096	20,046	2,055	-----	2,995	-----	-----	-----	
3261 BUILDING CEMENT-----	3,141	-----	135	-----	3,006	-----	-----	-----	

LOS ANGELES, CA, DISTRICT

LOS ANGELES HARBOR, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1982--CONTINUED

7

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
3281 STRUCTURAL CLAY PRODUCTS-----	60,896	37,846	1,797	-----	1,253	-----	-----	-----
3271 LIME-----	10	-----	18	-----	-----	-----	-----	-----
3261 CUT STONE AND STONE PRODUCTS-----	19,908	19,209	130	-----	659	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	64,510	33,710	3,175	-----	27,616	-----	-----	-----
3312 SLAG-----	720	-----	-----	-----	724	-----	-----	-----
3314 IRON AND STEEL PRIMARY FORMS-----	10,649	16,176	496	-----	2,977	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	463,991	460,891	3,163	-----	27	-----	-----	-----
3316 IRON AND STEEL PLATED, SHEETS-----	31,993	20,917	5,275	88	5,623	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	849,382	420,866	9,665	-----	2,578	8	5	-----
3318 FERROALLOYS-----	1,000	999	151	-----	-----	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	20,149	10,713	6,657	-----	779	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	6,600	2,645	5,881	-----	154	-----	-----	-----
3322 COPPER ALLOYS, UNWORKED-----	25,386	24,426	920	-----	-----	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED-----	20,345	16,726	1,621	-----	-----	-----	-----	-----
3326 ALUMINUM AND ALLOYS, UNWORKED-----	21,700	12,988	8,752	-----	-----	-----	-----	-----
3611 FABRICATED METAL PRODUCTS-----	261,708	246,720	14,416	111	6,474	7	8	-----
3811 MACHINERY, EXCEPT ELECTRICAL-----	256,515	183,851	67,042	1,125	3,664	30	3	-----
3611 ELECTRICAL MACH AND EQUIP-----	227,911	204,934	10,402	1,043	3,532	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	436,352	390,920	12,295	14,901	18,546	-----	-----	-----
3721 AIRCRAFT AND PARTS-----	3,767	529	3,225	0	4	-----	-----	-----
3731 SHIPS AND BOATS-----	4,957	3,689	1,129	41	98	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	1,798	445	1,286	2	105	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	26,890	23,733	5,157	-----	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	115,767	90,045	3,626	3,892	10,204	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	762,300	361	756,757	5,272	-----	-----	-----	-----
4012 NONFERROUS METAL SCRAP-----	32,213	1,673	30,580	-----	-----	-----	-----	-----
4022 TEXTILE WASTE, SCRAP, SHEEP-----	13,336	19	13,312	-----	5	-----	-----	-----
4020 PAPER WASTE AND SCRAP-----	187,274	-----	187,274	-----	-----	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	365,681	-----	-----	-----	-----	1	369,680	-----
4111 WATER-----	612	-----	-----	-----	-----	-----	312	300
4112 COMMODITIES, NEC-----	182,704	11,716	1,895	10,177	158,966	-----	16	-----
4119 EMPTY CONTAINERS-----	2,819	-----	-----	1,561	458	-----	-----	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	6,175	-----	6,175	-----	-----	-----	-----	-----

PORT HUENENE, CALIF.

SECTION INCLUDED: HARBOR AT PORT HUENENE, PROJECT DEPTHS: 40 FEET IN APPROACH CHANNEL; 36 FEET IN ENTRANCE CHANNEL; 35 FEET IN CHANNEL BASIN AND CHANNEL A. CONTROLLING DEPTHS: 36 FEET IN APPROACH CHANNEL; 34 FEET IN ENTRANCE CHANNELS; 31 FEET IN CENTRAL BASIN AND CHANNEL A.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1973-----	1,169,381	1978-----	956,668
1974-----	984,660	1979-----	1,180,624
1975-----	1,007,154	1980-----	1,405,744
1976-----	1,452,057	1981-----	1,927,774
1977-----	1,875,743	1982-----	338,719

FREIGHT TRAFFIC, 1982

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		INTERNAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL-----	338,719	183,800	52,474	10,792	29,975	30,181	20,871	-----
0131 FRESH FRUITS-----	14,103	-----	14,103	-----	-----	-----	-----	-----
0132 BANANAS AND PLANTAINS-----	69,435	69,435	-----	-----	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	167	-----	167	-----	-----	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	1,163	-----	1,163	-----	-----	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	19,000	-----	-----	-----	-----	19,000	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	5,330	-----	-----	-----	-----	5,330	-----	-----
1402 SAND, GRAVEL, CRUSHED ROCK-----	1,072	-----	-----	-----	-----	-----	-----	1,072
1499 NONMETALLIC MINERALS, NEC-----	36	-----	-----	-----	-----	-----	-----	36
2039 PREP FRUIT AND VEG JUICE, NEC-----	671	-----	671	-----	-----	-----	-----	671
2091 VEGETABLE OILS, MAR, SHORT-----	136	-----	136	-----	-----	-----	-----	136
2890 GROCERIES-----	0	-----	-----	-----	-----	-----	-----	0
2814 TIMBER, POSTS, POLES, PILING-----	0	-----	-----	-----	-----	0	-----	-----
2851 PULP-----	19,841	19,841	-----	-----	-----	-----	-----	6
2819 BASIC CHEMICALS AND PROD, NEC-----	0	-----	-----	-----	-----	-----	-----	0
3021 PLASTIC MATERIALS-----	1	-----	1	-----	-----	-----	-----	1
2871 NITROGENOUS CHEM FERTILIZERS-----	15	-----	-----	-----	-----	-----	-----	15
2911 DISTILLATE FUEL OIL-----	6,433	-----	-----	-----	-----	-----	4,433	-----
2915 RESIDUAL FUEL OIL-----	42,770	-----	33,289	9,921	-----	-----	-----	-----
2916 LUBRICATING OILS AND GREASES-----	30,688	30,688	-----	-----	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	1,241	-----	1,241	-----	-----	-----	-----	5
3211 GLASS AND GLASS PRODUCTS-----	5	-----	-----	-----	-----	-----	-----	5
3201 BUILDING CEMENT-----	33	-----	-----	-----	-----	-----	-----	33
3315 IRON, STEEL SHAPES, EXC SHEET-----	192	192	-----	-----	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	684	-----	-----	-----	230	656	-----	-----
3326 ALUMINUM AND ALLOYS, UNWORKED-----	1	-----	1	-----	-----	39	46	-----
3011 FABRICATED METAL PRODUCTS-----	600	452	63	30	81	800	2,613	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	3,852	-----	246	30	81	800	2,613	-----

*Waterborne Commerce of the United States, 1982*

PORT HUENEME, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1982--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			
		IMPORTS	EXPORTS	COASTWISE		INTERNAL	
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
3611 ELECTRICAL MACH AND EQUIP-----	14	1	1	-----	-----	-----	12
3711 MOTOR VEHICLES, PARTS, EQUIP-----	41,322	41,321	1	-----	-----	-----	-----
3731 SHIPS AND BOATS-----	2,867	-----	2,867	-----	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	106	-----	106	-----	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	3	-----	-----	-----	-----	-----	3
3911 MISC MANUFACTURED PRODUCTS-----	41,610	-----	13	25,894	52,714	9,997	-----
4011 IRON AND STEEL SCRAP-----	101	-----	-----	-----	101	-----	-----
4029 WASTE AND SCRAP, NEC-----	195	-----	-----	-----	195	-----	-----
4111 WATER-----	4,469	-----	-----	-----	376	4,091	-----
4112 COMMODITIES, NEC-----	11,381	1,938	-----	-----	3,652	5,591	-----
4119 EMPTY CONTAINERS-----	391	-----	-----	-----	330	53	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	8	-----	8	-----	-----	-----	-----

## LOS ANGELES, CA, DISTRICT

9

## OTHER HARBOURS AND WATERWAYS

HARBOR OR WATERWAY	COMMUNITY	TONS	TONS TWO MILES	PASSENGERS
PROJECT				
MISSION BAY, CALIF.,-----	NO COMMERCE REPORTED			
MORNING STAR HARBOR, CALIF.,-----	0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED-----	2,040 45A	----- -----	-----
	TOTAL-----	2,040	-----	-----
NORTHPORT BAY HARBOR, CALIF.,-----	0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED-----	30 55	----- -----	-----
	TOTAL-----	85	-----	-----
REDWOOD BEACH, CALIF.,-----	0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED-----	135 281	----- -----	-----
	TOTAL-----	416	-----	-----
RANCHO HARRARE HARBOR, CALIF.,-----	0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED----- 3511 MACHINERY, EXCEPT ELECTRICAL-----	491 6,463 2	----- ----- -----	-----
	TOTAL-----	7,756	-----	-----
NONPROJECT				
ELKHORN, CALIF.,-----	1311 CRUDE PETROLEUM----- 2914 DISTILLATE FUEL OIL----- 2991 PETROLEUM AND CRUDE OIL, NEC----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 3911 MISC MANUFACTURED PRODUCTS----- 4112 COMMUNITIES, NEC-----	229,009 4,641 1,655 135 24,404 1	----- ----- ----- ----- ----- -----	-----
	TOTAL-----	261,945	-----	-----
ENCINITAS, CALIF.,-----	2915 RESIDUAL FUEL OIL-----	772,667	-----	-----
VENTURA HARBOR, CALIF.,-----	0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED----- 1311 CRUDE PETROLEUM----- 2914 DISTILLATE FUEL OIL----- 2915 RESIDUAL FUEL OIL-----	161 48 46,033 31,361 542,422	----- ----- ----- ----- -----	-----
	TOTAL-----	620,245	-----	-----

# SACRAMENTO, CA, DISTRICT

SACRAMENTO RIVER, CALIF., (INCLUDING COMMERCE OF  
SACRAMENTO RIVER DEEPWATER SHIP CHANNEL AND THE  
PORT OF SACRAMENTO, CALIF.)

SECTION INCLUDED: FROM MOUTH OF RIVER TO RED BLUFF VIA RIVER ROUTE, A DISTANCE OF 200 MILES; FROM MOUTH OF CACHE BLOUGH TO WASHINGTON LAKE VIA SACRAMENTO RIVER DEEPWATER SHIP CHANNEL, A DISTANCE OF 29.9 MILES, CONTROLLING DEPTHS: MOUTH OF RIVER TO CACHE BLOUGH, 20 FEET; MOUTH OF CACHE BLOUGH TO WASHINGTON LAKE VIA SACRAMENTO RIVER DEEPWATER SHIP CHANNEL, 20 FEET; MOUTH OF CACHE BLOUGH TO SACRAMENTO VIA RIVER ROUTE, 10 FEET; SACRAMENTO TO COLUSA, 6 FEET IN LOW WATER SEASON; COLUSA TO CHICO LANDINGS, 3 FEET; CHICO LANDINGS TO RED BLUFF 1.5 FEET. PROJECT DEPTHS: 30 FEET FROM MOUTH OF RIVER TO CACHE BLOUGH; 30 FEET FROM CACHE BLOUGH TO WASHINGTON LAKE VIA SACRAMENTO RIVER DEEPWATER SHIP CHANNEL; 10 FEET FROM MOUTH OF CACHE BLOUGH TO SACRAMENTO VIA RIVER ROUTE; 6 FEET FROM SACRAMENTO TO COLUSA; 5 FEET FROM COLUSA TO CHICO LANDINGS; SUCH DEPTHS AS PRACTICABLE FROM CHICO LANDINGS TO RED BLUFF.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1975-----	2,044,510	1978-----	1,760,717
1976-----	1,485,084	1979-----	2,065,089
1977-----	1,756,843	1980-----	2,964,769
1978-----	1,756,051	1981-----	3,110,927
1979-----	1,602,271	1982-----	2,016,475

\* PASSENGERS=11,389.

## FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			
		IMPORTS	EXPORTS	COASTWISE		INTERSTATE	
				RECEIPTS	SHIPMENTS	INBOUND	OUTBOUND
TOTAL-----	2,816,475	167,087	1,000,935	202,593	98,350	62,630	4,680
0101 COTTON, RAW-----	43	43	-----	-----	-----	-----	-----
0105 RICE-----	511,001	418,651	98,350	-----	-----	-----	-----
0107 MEAT-----	365,281	365,281	-----	-----	-----	-----	-----
0119 GILDEDG-----	2,315	2,315	-----	-----	-----	-----	-----
0129 FIELD CROPS, NEC-----	8	8	-----	-----	-----	-----	-----
0131 FRESH FRUITS-----	7	7	-----	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	64	64	-----	-----	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	22	22	-----	-----	-----	-----	-----
1009 SAND, GRAVEL, CRUSHED ROCK-----	6,000	6,000	-----	-----	-----	-----	4,680
1051 CLAY-----	4,650	4,650	-----	-----	-----	-----	-----
1099 NONMETALLIC MINERALS, NEC-----	11	11	-----	-----	-----	-----	-----
2022 DRIED MILK AND CREAM-----	400	400	-----	-----	-----	-----	-----
2034 VEGETABLES AND PREP, NEC-----	41	41	-----	-----	-----	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	79	79	79	79	79	79	79
2042 ANIMAL FEEDS-----	120,948	120,948	-----	-----	-----	-----	-----
2071 VEGETABLE OILS, MAR, SHORT-----	1,000	1,000	-----	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	1	1	-----	-----	-----	-----	-----
2311 APPAREL-----	50	50	-----	-----	-----	-----	-----
2611 LOGS-----	2,000	2,000	-----	-----	-----	-----	-----
2616 WOOD CHIPS, STAVES, MOLDINGS-----	290,001	290,001	-----	-----	-----	-----	-----
2631 FURNITURE AND FIXTURES-----	1	1	-----	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	19,767	19,767	-----	-----	-----	-----	-----
2711 PRINTED MATTER-----	2	1	1	1	1	1	1
2810 BASIC CHEMICALS AND PROD, NEC-----	171,062	16,547	1,210	193,297	-----	-----	-----
2821 PLASTIC MATERIALS-----	113	113	-----	-----	-----	-----	-----
2851 PAINTS-----	6	6	6	6	6	6	6
2871 NITROGENOUS CHEM FERTILIZERS-----	170,016	130,920	-----	49,296	-----	-----	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	35,164	35,164	-----	-----	-----	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	11	11	11	11	11	11	11
2920 COKE, PETROLEUM COKE-----	237,446	237,446	-----	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	1	1	1	1	1	1	1
3111 LEATHER AND LEATHER PRODUCTS-----	15	15	13	13	13	13	13
3211 GLASS AND GLASS PRODUCTS-----	5	5	-----	-----	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	8	8	8	8	8	8	8
3291 MISC NONMETALLIC MINERAL PROD-----	30	30	-----	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	23	23	23	23	23	23	23
3411 FABRICATED METAL PRODUCTS-----	4	4	-----	-----	-----	-----	-----
3611 MACHINERY, EXCEPT ELECTRICAL-----	54	54	54	54	54	54	54
3611 ELECTRICAL MACH AND EQUIP-----	12	12	12	12	12	12	12
3711 MOTOR VEHICLES, PARTS, EQUIP-----	12	12	12	12	12	12	12
3811 MISC MANUFACTURED PRODUCTS-----	9	9	-----	-----	-----	-----	-----
4112 COMMODITIES, NEC-----	10	10	10	10	10	10	10
4116 WATERWAY IMPROVEMENT MAT-----	62,630	62,630	62,630	62,630	62,630	62,630	62,630
TOTAL TON-MILES, 1982-----	63,740,846	-----	-----	-----	-----	-----	-----

# SACRAMENTO, CA, DISTRICT

SACRAMENTO RIVER DEEPWATER SHIP CHANNEL, CALIF.  
(INCLUDED IN SACRAMENTO RIVER, CALIF.)

11

SECTION INCLUDED: A DEEPWATER SHIP CHANNEL FROM SUIBUN BAY TO THE INLAND HARBOR AT SACRAMENTO, A DISTANCE OF 43 MILES; A TRIANGULAR-SHAPED DEEP DRAFT HARBOR AND TURNING BASIN LOCATED AT WEST SACRAMENTO; A 1.5 MILE-LONG BARGE CANAL WITH NAVIGATION LOCK CONNECTING THE DEEP DRAFT HARBOR WITH THE SACRAMENTO RIVER. CONTROLLING DEPTHS: 29 FEET IN THE DEEPWATER SHIP CHANNEL AND TRIANGULAR-SHAPED HARBOR AND TURNING BASINS; 13 FEET IN THE BARGE CANAL. PROJECT DEPTHS: 30 FEET IN THE DEEPWATER SHIP CHANNEL AND TRIANGULAR-SHAPED HARBOR AND TURNING BASINS; 13 FEET IN THE BARGE CANAL.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1973	1,612,356	1978	1,550,142
1974	1,390,789	1979	1,779,124
1975	1,695,400	1980	2,968,602
1976	1,622,149	1981	3,111,912
1977	1,481,228	1982	1,926,115

## FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		
		IMPORTS	EXPORTS	COASTWISE		INTERNAL
				RECEIPTS	SHIPMENTS	
TOTAL	1,926,115	167,087	1,859,038	156,081	98,358	24,762
0101 COTTON, RAW	43		43			
0105 RICE	511,081		412,651		98,358	
0107 MEAT	363,281		363,281			
0115 OILSEEDS, NEC	2,315		2,315			
0120 FIELD CROPS, NEC	0		0			
0131 FRESH FRUITS	0		0			
0141 FRESH AND FROZEN VEGETABLES	7		7			
0161 ANIMALS AND PRODUCTS, NEC	66		66			
1051 CLAY	22	22				
1499 NONMETALLIC MINERALS, NEC	4,630		4,630			
2022 DRIED MILK AND CREAM	11		11			
2034 VEGETABLES AND PREP, NEC	466		466			
2039 PREP FRUIT AND VEG JUICE, NEC	41		41			
2042 ANIMAL FEEDS	79		79			
2091 VEGETABLE OILS, MARG, SHORT	124,966		124,966			
2211 BASIC TEXTILE PRODUCTS	1,604		1,604			
2311 APPAREL	1	1				
2611 LOGS	50	50				
2616 WOOD CHIPS, STAVES, MOLDINGS	2,800		2,800			
2511 FURNITURE AND FIXTURES	294,081		294,081			
2631 PAPER AND PAPERBOARD	1		1			
2711 PRINTED MATTER	19,767	19,767				
3010 BASIC CHEMICALS AND PROD, NEC	2	1	1			
3021 PLASTIC MATERIALS	125,450	16,547	1,810	107,005		
3051 PAINTS	113	113				
3071 NITROGENOUS CHEM FERTILIZERS	179,810	130,920		49,296		
3073 PHOSPHATIC CHEM FERTILIZERS	35,164		35,164			
2876 INSECTICIDES, DISINFECTANTS	11		11			
2920 COKE, PETROLEUM COKE	237,440		237,440			
3011 RUBBER AND MISC PLASTIC PROD	1		1			
3111 LEATHER AND LEATHER PRODUCTS	13		13			
3211 GLASS AND GLASS PRODUCTS	5	5				
3251 STRUCTURAL CLAY PRODUCTS	0		0			
3291 MISC NONMETALLIC MINERAL PROD	30	30				
3315 IRON, STEEL SHAPES, EXC SHEET	23		23			
3411 FABRICATED METAL PRODUCTS	4	4				
3511 MACHINERY, EXCEPT ELECTRICAL	54		54			
3611 ELECTRICAL MACH AND EQUIP	12		12			
3711 MOTOR VEHICLES, PARTS, EQUIP	12		12			
3911 MISC MANUFACTURED PRODUCTS	0		0			
4112 COMMODITIES, NEC	10	10				
4118 WATERWAY IMPROVEMENT MAT	24,762					24,762
TOTAL TON-MILES	78,037,475					

SACRAMENTO, CALIF. (INCLUDED IN SACRAMENTO RIVER, CALIF.)

SECTION INCLUDED: A TRIANGULAR-SHAPED HARBOR AND TURNING BASIN AT WASHINGTON LAKE, WEST SACRAMENTO, ADJACENT TO CHANNEL; A CONNECTING BARGE CANAL TO THE SACRAMENTO RIVER SHALLOW DRAFT CHANNEL; THENCE UPSTREAM TO A POINT APPROXIMATELY 6.6 MILES UPSTREAM AT BRYTE, CONTROLLING DEPTHS: 29 FEET IN THE DEEPWATER CHANNEL HARBOR AND TURNING BASIN; 13 FEET IN THE CONNECTING BARGE CANAL; 10 FEET IN THE SHALLOW DRAFT CHANNEL. PROJECT DEPTHS: 30 FEET IN THE DEEPWATER CHANNEL HARBOR AND TURNING BASINS; 13 FEET IN THE CONNECTING BARGE CANAL; 10 FEET IN THE SHALLOW DRAFT CHANNEL.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1973	1,600,746	1978	1,657,631
1974	1,366,899	1979	2,030,770
1975	1,696,027	1980	2,968,602
1976	1,622,313	1981	3,113,925
1977	1,481,691	1982	1,926,065

\* PASSENGERS--11,359.

*Waterborne Commerce of the United States, 1982*

SACRAMENTO, CALIF. (INCLUDED IN SACRAMENTO RIVER, CALIF.)--CONTINUED

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC CARTWHEEL	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL	1,948,965	167,087	1,480,935	202,593	98,350
0101 COTTON, RAH		43	43		
0105 RICE	511,001		412,651		98,350
0107 WHEAT	363,281		363,281		
0119 SESAME, NEC	2,315		2,315		
0120 FIELD CROPS, NEC	6		6		
0131 FRESH FRUITS	7		7		
0141 FRESH AND FROZEN VEGETABLES	68		68		
0161 ANIMALS AND PRODUCTS, NEC	22	22			
1051 CLAY	4,630		4,630		
1499 NONMETALLIC MINERALS, NEC	11		11		
2022 DRIED MILK AND CREAM	488		488		
2034 VEGETABLES AND PREP, NEC	41		41		
2036 PREP FRUIT AND VEG JUICE, NEC	79		79		
2042 ANIMAL FEEDS	124,948		124,948		
2091 VEGETABLE OILS, MARS, SHORT	1,604		1,604		
2311 BASIC TEXTILE PRODUCTS	1	1			
2311 APPAREL	50	50			
2411 LOSS	2,800		2,800		
2416 WOOD CHIPS, STAVES, HOLDINGS	294,001		294,001		
2511 FURNITURE AND FIXTURES	19,767	19,767			
2631 PAPER AND PAPERBOARD	2	1	1		
2631 PRINTED MATTER	171,062	16,547	1,218	153,297	
2631 PLASTIC MATERIALS	113	113			
2651 PAINTS	6		6		
2671 NITROGENOUS CHEM FERTILIZERS	179,816	130,520		49,296	
2673 PHOSPHATIC CHEM FERTILIZERS	35,164		35,164		
2876 INSECTICIDES, DISINFECTANTS	11		11		
2920 COKE, PETROLEUM COKE	237,440		237,440		
3011 RUBBER AND MISC PLASTIC PROD	1		1		
3111 LEATHER AND LEATHER PRODUCTS	13		13		
3211 GLASS AND GLASS PRODUCTS	5	5			
3291 STRUCTURAL CLAY PRODUCTS	0		0		
3401 MISC NONMETALLIC MINERAL PROD	50	30			
3519 IRON, STEEL SHAPED, EXC SHEET	23		23		
3611 FABRICATED METAL PRODUCTS	4	4			
3611 MACHINERY, EXCEPT ELECTRICAL	54		54		
3611 ELECTRICAL MACH AND EQUIP	12		12		
3751 MOTOR VEHICLES, PARTS, EQUIP	12		12		
3911 MISC MANUFACTURED PRODUCTS	9	9			
4112 COMMODITIES, NEC	18	18			

SAN JOAQUIN RIVER, CALIF. (INCLUDING COMMERCE OF  
PORT OF STOCKTON, CALIF.)

SECTION INCLUDED: FROM MOUTH OF NEW YORK SLOUGH TO CITY OF STOCKTON, 41 MILES; FROM STOCKTON CHANNEL TO HILLS FERRY, 86 MILES.  
CONTROLLING DEPTH: MOUTH OF RIVER TO MORMON CHANNEL, STOCKTON, 29 FEET; OTHER CONNECTING CHANNELS, 2 FEET TO 9 FEET; TO EDISON STREET,  
22 FEET, PROJECT DEPTH 30 FEET FROM THE MOUTH OF NEW YORK SLOUGH TO MORMON CHANNEL AT STOCKTON; 30 FEET FROM MORMON CHANNEL TO EDISON  
STREET; OTHER CONNECTING CHANNELS, 9 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1973	3,706,593	1978	2,636,922
1974	3,722,780	1979	3,104,550
1975	4,124,421	1980	3,920,171
1976	4,643,914	1981	3,883,148
1977	3,507,137	1982	2,759,139

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		
		IMPORTS	EXPORTS	COASTWISE		INTERNAL
				RECEIPTS	SHIPMENTS	
TOTAL	2,759,139	641,962	1,160,855	225,328	51,669	640,093
0101 COTTON, RAH	6,967		6,967			
0107 WHEAT	518,483		518,483			
0120 FIELD CROPS, NEC	7		7			
0141 FRESH AND FROZEN VEGETABLES	2		2			
0201 FOREST PRODUCTS, NEC	26,000					26,000
0912 SMELLPISH, EXCEPT PREPARED	1				1	
1051 ALUMINUM ORES, CONCENTRATES	5,672	5,672				
1121 COAL AND LIGNITE	169,584		169,584			
1411 LIMESTONE	376,081	374,081				
1451 CLAY	21,948		21,948			
1571 PHOSPHATE ROCK	52,580	25,369		27,211		
1670 NATURAL FERTILIZER MATD, NEC	5,012	5,012				
1691 SALT	165,270					165,270
1692 SULPHUR, DRY	152,019		152,019			
1499 NONMETALLIC MINERALS, NEC	136		136			
2014 TALLOW, ANIMAL FATS AND OILS	882		882			

**SACRAMENTO, CA, DISTRICT**  
 SAN JOAQUIN RIVER, CALIF. (INCLUDING COMMERCE OF  
 PORT OF STOCKTON, CALIF.)--CONTINUED

13

FREIGHT TRAFFIC, 1962--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		INTERNAL		
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	INBOUND	OUTBOUND	UPBOUND
2022 DRIED MILK AND CREAM-----	9,408	-----	9,408	-----	-----	-----	-----	-----
2030 PREP FRUIT AND VEG JUICE, NEC-----	1	-----	1	-----	-----	-----	-----	-----
2062 ANIMAL FEEDS-----	15,620	-----	9,227	6,393	-----	-----	-----	-----
2062 MOLASSES-----	10,755	10,755	-----	-----	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	1	-----	1	-----	-----	-----	-----	-----
2091 VEGETABLE OILS, MARG, SHORT-----	329	-----	329	-----	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	21	-----	21	-----	-----	-----	-----	-----
2311 APPAREL-----	24	24	-----	-----	-----	-----	-----	-----
2414 TIMBER, POSTS, POLES, PILING-----	200	-----	-----	-----	-----	200	-----	-----
2491 WOOD MANUFACTURES, NEC-----	12	-----	12	-----	-----	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	30	-----	30	-----	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	2	-----	2	-----	-----	-----	-----	-----
2810 SODIUM HYDROXIDE-----	13,500	-----	13,500	-----	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	222,767	114,704	3,472	52,942	51,669	-----	-----	-----
2821 PLASTIC MATERIALS-----	12	-----	12	-----	-----	-----	-----	-----
2851 PAINTS-----	7	-----	7	-----	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	169,799	61,916	-----	108,283	-----	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	5,848	5,848	-----	-----	-----	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	32	-----	32	-----	-----	-----	-----	-----
2912 JET FUEL-----	16,999	-----	-----	16,999	-----	-----	-----	-----
2915 RESIDUAL FUEL OIL-----	52,674	-----	-----	-----	46,032	6,242	-----	-----
2916 LUBRICATING OILS AND GREASES-----	25	-----	25	-----	-----	-----	-----	-----
2920 COKE, PETROLEUM COKE-----	247,406	-----	247,406	-----	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	2	1	1	-----	-----	-----	-----	-----
3241 BUILDING CEMENT-----	18,287	17,637	-----	-----	-----	650	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	21	-----	21	-----	-----	500	250	-----
3291 MISC NONMETALLIC MINERAL PROD-----	785	35	-----	-----	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	13,202	13,202	-----	-----	-----	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	60	-----	60	-----	-----	-----	-----	-----
3343 LEAD AND ZINC, UNWORKED-----	1	-----	1	-----	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	1,758	70	466	-----	-----	1,176	66	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	374	-----	374	-----	-----	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	37	32	5	-----	-----	-----	-----	-----
3721 AIRCRAFT AND PARTS-----	1	-----	1	-----	-----	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	2	-----	2	-----	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	4	4	-----	-----	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	25,793	-----	25,793	-----	-----	-----	-----	-----
4110 WATERWAY IMPROVEMENT MAT-----	826,564	-----	-----	-----	826,564	-----	-----	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	106	-----	106	-----	-----	-----	-----	-----
TOTAL TON-MILES:	68,312,810.							

STOCKTON, CALIF. (INCLUDED IN SAN JOAQUIN RIVER, CALIF.)

SECTION INCLUDED: HARBOR AT STOCKTON (AND VICINITY). CONTROLLING DEPTHS: 20 FEET IN STOCKTON CHANNEL UP TO MOUTH OF MORMON CHANNEL; 8 FEET IN MORMON CHANNEL; 6 FEET IN FREMONT CHANNEL, MCLEOD LAKE AND IN THE HEAD OF STOCKTON CHANNEL. PROJECT DEPTHS: (INCLUDED IN SAN JOAQUIN RIVER PROJECT).

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR			TONS
		1973	1974	1975	
1973-----	1,806,500	1978-----	-----	-----	1,550,682
1974-----	1,476,216	1979-----	-----	-----	1,617,508
1975-----	1,056,470	1980-----	-----	-----	1,995,435
1976-----	1,409,985	1981-----	-----	-----	1,950,947
1977-----	1,520,091	1982-----	-----	-----	1,335,121

FREIGHT TRAFFIC, 1962

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		IMPORTS	EXPORTS	COASTWISE	INTERNAL
TOTAL-----	1,335,121	247,619	915,129	170,947	1,026
0181 COTTON, RAW-----	6,967	-----	6,967	-----	-----
0187 WHEAT-----	518,483	-----	518,483	-----	-----
0189 FIELD CROPS, NEC-----	7	-----	7	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	2	-----	2	-----	-----
1121 COAL AND LIGNITE-----	152,942	-----	152,942	-----	-----
1451 CLAY-----	21,948	-----	21,948	-----	-----
1471 PHOSPHATE ROCK-----	52,580	25,369	-----	27,211	-----
1079 NATURAL FERTILIZER MATS, NEC-----	5,012	5,012	-----	-----	-----
1492 SULPHUR, DRY-----	152,019	-----	152,019	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	136	-----	136	-----	-----
2014 TALLOW, ANIMAL FATS AND OILS-----	882	-----	882	-----	-----
2022 DRIED MILK AND CREAM-----	9,408	-----	9,408	-----	-----
2030 PREP FRUIT AND VEG JUICE, NEC-----	1	-----	1	-----	-----
2062 ANIMAL FEEDS-----	15,620	-----	9,227	6,393	-----
2062 MOLASSES-----	10,755	10,755	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	1	-----	1	-----	-----
2091 VEGETABLE OILS, MARG, SHORT-----	329	-----	329	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	21	-----	21	-----	-----
2311 APPAREL-----	24	-----	24	-----	-----

*Waterborne Commerce of the United States, 1982*

STOCKTON, CALIF. (INCLUDED IN SAN JOAQUIN RIVER, CALIF.)--CONTINUED

FREIGHT TRAFFIC, 1982--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		IMPORTS	EXPORTS	COASTWISE	INTERNAL
				RECEIPTS	RECEIPTS
2001 WOOD MANUFACTURES, NEC	12		12		
2501 FURNITURE AND FIXTURES	30		30		
2601 PAPER AND PAPERBOARD	2		2		
2819 BASIC CHEMICALS AND PROD, NEC	129,686	114,153	3,472	12,061	
2801 PLASTIC MATERIALS	12		12		
2901 PAINTS	7		7		
2071 NITROGENOUS CHEM FERTILIZERS	155,799	47,516		108,283	
2070 FERTILIZER AND MATERIALS, NEC	5,848	5,848			
2001 MISCELLANEOUS CHEMICAL PROD	13		13		
2012 JET FUEL	16,999			16,999	
2016 LUBRICATING OILS AND GREASES	25		25		
2820 COKE, PETROLEUM COKE	12,768		12,768		
3001 RUBBER AND MISC PLASTIC PROD	1		1		
3201 BUILDING CEMENT	17,637	17,637			
3201 STRUCTURAL CLAY PRODUCTS	21		21		
3201 MISC NONMETALLIC MINERAL PROD	250				250
3305 IRON, STEEL SHAPES, EXC SHEET	13,202	13,202			
3306 IRON AND STEEL PLATED SHEETS	68		68		
3323 LEAD AND ZINC, UNWORKED	1		1		
3401 FABRICATED METAL PRODUCTS	1,712	68	468		1,176
3601 MACHINERY, EXCEPT ELECTRICAL	56		56		
3601 ELECTRICAL MACH AND EQUIP	37	32	5		
3801 INSTN, TIME, PHOTO, OPT GOODS	2		2		
3001 MISC MANUFACTURED PRODUCTS	3	3			
4001 IRON AND STEEL SCRAP	25,793		25,793		

**SACRAMENTO, CA, DISTRICT****15**

## OTHER HARBOUR AND WATERWAYS

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TIME HOURS	PASSENGERS
PROJECT				
MIDDLE RIVER, CALIF.,-----	NO COMMERCE REPORTED			
MOKELOMNE RIVER, CALIF.,-----	NO COMMERCE REPORTED			
OLD RIVER, CALIF.,-----	NO COMMERCE REPORTED			

## SAN FRANCISCO, CA, DISTRICT

TOTAL WATERBORNE COMMERCE OF THE SAN FRANCISCO BAY AND DELTA AREAS

CALENDAR YEAR 1982

(SHORT TONS)

LOCALITY	FOREIGN		DOMESTIC				TOTAL	PERCENT	THROUGH TRAFFIC			
	IMPORTS	EXPORTS	COASTWISE		INTERNAL RECEIPTS AND SHIPMENTS	LOCAL						
			RECEIPTS	SHIPMENTS								
SAN RAFAEL CREEK, CALIF.					2		2	.01				
PETALUMA RIVER, CALIF.					40,674		40,674	.00				
NAPA RIVER, CALIF.					207,706		207,706	.32				
CARQUINNEZ STRAIT, CALIF.	678,927	707,473	9,312,676	4,888,231	2,939,272	274,966	10,891,545	29.26	6,914,346			
BUISUM BAY CHANNEL, CALIF.	40,998	82,578	602,376	1,006,382	440,837		2,282,271	3.51	4,775,572			
BUISUM CHANNEL, CALIF.					26,200		26,200	.04				
SACRAMENTO RIVER, CALIF., AND TRIB.	167,087	1,480,335	202,593	98,350	67,510		2,016,475	3.12				
SAN JOAQUIN RIVER, CALIF.	641,962	1,166,655	225,328	51,669	647,075	26,250	2,759,139	4.28				
SAN PABLO BAY AND MARE ISLAND STRAIT, CALIF.	343,146	103,874	1,841,255	1,430,625	366,406	1,764,122	5,853,620	9.07	25,326,294			
RICHMOND HARBOR, CALIF.	1,513,548	1,061,076	5,786,251	3,661,645	3,082,296	289,881	15,394,697	23.86				
OAKLAND HARBOR, CALIF.	1,808,259	3,001,970	443,678	809,763	916,425	5,939	6,905,130	10.82				
NEWARK BLOUGH, CALIF.												
COYOTE HILL BLOUGH, CALIF.												
ALVIBO BLOUGH, CALIF.												
REDWOOD CITY HARBOR, CALIF.	1	207,610		233,654	112,088		533,361	.86				
SAN FRANCISCO HARBOR, CALIF.	701,345	629,235			324,197		1,454,777	2.56				
SAN FRANCISCO BAY, OTHER PORTS, CALIF.	20,985	180,442	2,962,327	57,605	6,659,350	3,926	7,884,723	12.22				
BERKELEY, CALIF.					21		21	.01				
TOTAL (UNADJUSTED)	5,915,358	8,712,056	21,376,484	12,332,204	13,630,077	2,364,184	66,530,363	-----	37,014,810			
PERCENT (UNADJUSTED)	9.17	13.50	33.15	19.11	21.03	3.66	-----	100.00	-----			
NET VOLUME OF TONNAGE FOR THE AREA	5,915,358	8,712,056	21,376,484	12,332,204	6,922,629	2,364,184	57,622,915	-----	-----			
PERCENT (ADJUSTED)	10.27	15.12	37.10	21.40	12.01	4.10	-----	100.00	-----			

\* NOT INCLUDED IN THE TOTAL TONNAGE OF THE BAY AND DELTA AREA.

\*\* TRIBUTARIES TO SAN JOAQUIN RIVER INCLUDE MOKELEMUNE, MIDDLE, AND OLD RIVERS.

\*\*\* ADJUSTED TO NET VOLUME BY EXCLUDING ONE-HALF OF INTERNAL TRAFFIC MOVED BETWEEN PORTS AND WATERWAYS OF THE SAN FRANCISCO BAY AND DELTA AREA.

## SAN FRANCISCO BAY ENTRANCE, CALIF.

SECTION INCLUDED: BONITA, MAIN SHIP AND SOUTH CHANNELS, CONTROLLING DEPTH: BONITA CHANNEL, 39 FEET; SOUTH CHANNEL, 33 FEET; MAIN SHIP CHANNEL, 52.6 FEET. PROJECT DEPTH: MAIN SHIP CHANNEL, 55 FEET. BONITA AND SOUTH CHANNELS, NO FEDERAL PROJECT.

## COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	FOREIGN THROUGH		DOMESTIC THROUGH		TOTAL	YEAR	FOREIGN THROUGH		DOMESTIC THROUGH		TOTAL
	UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND			UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND	
1973--	15,160,004	4,899,155	15,103,573	11,415,944	40,578,744	1978--	11,508,783	6,630,775	20,273,694	13,968,191	52,377,603
1974--	12,811,341	6,667,263	14,725,973	10,066,103	44,210,680	1979--	10,263,721	8,332,062	22,401,040	14,445,334	55,442,177
1975--	12,642,665	7,128,013	14,549,210	9,767,964	43,907,864	1980--	8,765,796	10,543,058	20,799,552	17,688,162	57,996,566
1976--	17,144,903	6,092,434	13,955,604	11,197,204	48,390,345	1981--	6,789,674	10,644,681	20,487,338	17,740,333	55,667,026
1977--	23,341,389	6,205,983	13,596,097	13,040,045	56,163,514	1982--	5,915,358	8,712,056	16,565,931	15,157,937	46,351,282

## SAN FRANCISCO HARBOR, CALIF.

SECTION INCLUDED: FROM FORT POINT TO SAN FRANCISCO AIRPORT ON THE WEST SIDE OF THE SAN FRANCISCO BAY, CONTROLLING DEPTH: MAIN SHIP CHANNEL, 52.6 FEET; PRESIDIO SHOAL, 35.5 FEET; BLACK POINT SHOAL, 37.5 FEET; RINCON REEF ROCK (INNER), 41 FEET; RINCON REEF ROCK (OUTER), 42.5 FEET; BLOSSOM ROCK, 40 FEET; ALCATRAZ SHOAL, 34.8 FEET; ARCH, HARDING ROCKS, 36.7 FEET; SHAG ROCKS 1 AND 2, 36.9 FEET; POINT KNOX SHOAL, 38.2 FEET; ISLAIS CREEK SHOAL, 32.3 FEET; CHANNEL AND BASIN AT SAN FRANCISCO AIRPORT, 6.8 FEET IN THE MAINTAINED 200-FOOT WIDE SOUTHERLY PORTION; 8 FEET IN THE MAINTAINED PORTION OF TURNING BASIN, 4.6 FEET TO SEAPLANE RAMP, PROJECT DEPTH: 55 FEET IN ENTRANCE CHANNEL ACROSS THE BAR; 40 FEET ACROSS PRESIDIO SHOAL, BLACK POINT SHOAL, BLOSSOM ROCK, RINCON REEF ROCK, AND A PORTION OF ALCATRAZ SHOALS; 37 FEET ACROSS ARCH, SHAG, AND HARDING ROCKS; 35 FEET ACROSS RACOON SHOAL; AND THE WESTERN PART OF POINT KNOX SHOAL; 35 FEET ACROSS ISLAIS CREEK SHOAL; 10 FEET TO THE SAN FRANCISCO AIRPORT.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	ADDITIONAL TRAFFIC			YEAR	TONS	PASSENGERS	ADDITIONAL TRAFFIC		
			CAR FERRY-RAILROAD CARS EMPTY	CAR FERRY-RAILROAD CARS LOADED	TOTAL				CAR FERRY-RAILROAD CARS EMPTY	CAR FERRY-RAILROAD CARS LOADED	TOTAL
1973--	4,485,745	27,630	16,758	20,917	37,675	1978--	2,317,565	33,253	8,756	9,522	18,272
1974--	3,913,071	16,406	9,890	12,330	22,228	1979--	2,353,799	-----	3,650	4,260	7,918
1975--	2,479,188	27,026	6,197	6,471	12,668	1980--	1,752,193	-----	23,134	24,327	47,461
1976--	1,956,437	25,196	9,318	10,475	19,793	1981--	1,567,985	1,707,174	2,160	2,304	4,464
1977--	1,931,693	27,030	8,603	9,630	18,281	1982--	1,654,777	2,141,502	1,403	1,490	2,893

## SAN FRANCISCO, CA, DISTRICT

SAN FRANCISCO HARBOR, CALIF.--CONTINUED

17

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC INTERNAL	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	1,654,777	701,345	629,235	316,420	7,377
0101 COTTON, RAW-----	14,505		14,505		
0102 BARLEY AND RYE-----	42		42		
0103 CORN-----	1,054		1,054		
0104 OATS-----	33	19	14		
0105 RICE-----	8,312	1,117	7,195		
0106 BORGHUM GRAINS-----	221		221		
0107 WHEAT-----	137,513		137,513		
0111 SOYBEANS-----	266		266		
0119 OILSEEDS, NEC-----	769	601	168		
0121 TOBACCO, LEAF-----	112	10	102		
0129 FIELD CROPS, NEC-----	2,117	160	1,957		
0131 FRESH FRUITS-----	5,722	151	5,571		
0132 BANANAS AND PLANTAINS-----	1,466	1,466			
0133 COFFEE-----	72,087	71,119	968		
0134 COCOA BEANS-----	7,956	7,881	75		
0141 FRESH AND FROZEN VEGETABLES-----	7,179	129	7,050		
0151 LIVE ANIMALS-----	7		7		
0161 ANIMALS AND PRODUCTS, NEC-----	1,129	950	179		
0191 MISCELLANEOUS FARM PRODUCTS-----	65	31	14		
0201 CRUDE RUBBER AND ALLIED GUMS-----	2,305	2,303	2		
0261 FOREST PRODUCTS, NEC-----	835	790	45		
0911 FRESH FISH, EXCEPT SHELLFISH-----	11,450	277	1,159	10,014	
0912 SHELLFISH, EXCEPT PREPARED-----	1,769	774	669	66	
1051 ALUMINUM DRES, CONCENTRATES-----	3,850	3,757	93		
1091 NONFERROUS ORES, CONCENT., NEC-----	618	608	10		
1121 COAL AND LIGNITE-----	275		275		
1161 LIMESTONE-----	140		140		
1402 SAND, GRAVEL, CRUSHED ROCK-----	104,890	11,067	828	92,995	
1451 CLAY-----	1,039	629	410		
1491 SALT-----	65		65		
1492 SULPHUR, DRY-----	15		15		
1499 NONMETALLIC MINERALS, NEC-----	10,469	2	10,467		
1911 ORDNANCE AND ACCESSORIES-----	349	85	284		
2011 MEAT, FRESH, CHILLED, FROZEN-----	21,666	17,612	3,994		
2012 MEAT AND PRODUCTS, NEC-----	8,485	8,000	485		
2014 TALLOW, ANIMAL FATS AND OILS-----	19,196		19,196		
2015 ANIMAL BY-PRODUCTS, NEC-----	806	40	766		
2021 DAIRY PRODUCTS, NEC-----	782	206	576		
2022 DRIED MILK AND CREAM-----	6,847	1	6,846		
2031 FISH AND SHELLFISH, PREPARED-----	3,540	2,777	763		
2034 VEGETABLES AND PREP, NEC-----	20,038	10,154	9,884		
2039 PREP FRUIT AND VEG JUICE, NEC-----	28,726	6,240	22,466		
2061 WHEAT FLOUR AND BREADING-----	870		870		
2062 ANIMAL FEEDS-----	17,667	3,909	13,758		
2069 GRAIN MILL PRODUCTS, NEC-----	1,891	996	895		
2061 SUGAR-----	65	10	55		
2062 MOLASSES-----	6		6		
2061 ALCOHOLIC BEVERAGES-----	5,459	1,393	4,066		
2091 VEGETABLE OILS, MARG, SHORT-----	98,803	88,201	10,602		
2092 ANIMAL OILS AND FATS, NEC-----	253	4	249		
2099 MISCELLANEOUS FOOD PRODUCTS-----	35,042	15,743	19,299		
2111 TOBACCO MANUFACTURE-----	14,961	18,115	866		
2212 TEXTILE FIBERS, NEC-----	390	216	174		
2301 APPAREL-----	10,088	13,965	123		
2411 LOGS-----	4,786	3	4,783		
2413 FUEL WOOD, CHARCOAL, WASTES-----	20		20		
2414 TIMBER, POSTS, POLES, PILING-----	120		20	100	
2416 WOOD CHIPS, STAVES, HOLDINGS-----	317		317		
2421 LUMBER-----	11,630	5,111	6,519		
2431 VENEER, PLYWOOD, WORKED WOOD-----	2,398	594	1,804		
2491 WOOD MANUFACTURES, NEC-----	4,667	930	3,717		
2511 FURNITURE AND FIXTURES-----	3,517	3,037	480		
2611 PULP-----	538	153	385		
2621 PAPER AND PAPERBOARD-----	207,931	205,916	1,995		
2691 PULP AND PAPER PRODUCTS, NEC-----	4,009	241	3,768		
2711 PRINTED MATTER-----	2,120	1,291	837		
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	11		11		
2812 DYES, PIGMENT, TANNING MATS-----	67		67		
2816 RADIOACTIVE MATERIALS, WASTES-----	3		3		
2819 BASIC CHEMICALS AND PROD, NEC-----	53,689	13,234	40,455		
2821 PLASTIC MATERIALS-----	70,042	774	69,268		
2822 SYNTHETIC RUBBER-----	1,490		1,490		
2823 SYNTHETIC (MAN-MADE) FIBERS-----	280	275	5		
2831 DRUGS-----	978	683	295		
2841 SOAP-----	6,187	789	5,358		
2851 PAINTS-----	6,687	6,098	589		
2861 GUM AND WOOD CHEMICALS-----	1		1		
2871 NITROGENOUS CHEM FERTILIZERS-----	60	20	40		
2872 POTASSIUM CHEM FERTILIZERS-----	39		39		
2876 INSECTICIDES, DISINFECTANTS-----	1,400	74	1,326		
2879 FERTILIZER AND MATERIALS, NEC-----	1,048	100	948		
2891 MISCELLANEOUS CHEMICAL PROD-----	11,276	4,442	6,834		
2911 GASOLINE-----	52,121	40,657	56	11,408	
2912 JET FUEL-----	3,257			3,257	
2914 DISTILLATE FUEL OIL-----	21,234			21,234	
2915 RESIDUAL FUEL OIL-----	199,123	277	16,206	177,150	3,767
2916 LUBRICATING OILS AND GREASES-----	7,589		5,203	506	1,800
2918 ASPHALT, TAR, AND PITCHES-----	65	1	64		
2920 COKE, PETROLEUM COKE-----	718	5	713		
2921 LIQUEFIED GASES-----	55		55		
2951 ASPHALT BUILDING MATERIALS-----	459		459		

## Waterborne Commerce of the United States, 1982

SAN FRANCISCO HARBOR, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1982--CONTINUED

(SHORE TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
				INTERNAL	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
2091 PETROLEUM AND COAL PROD, NEC	159	92	67		
3011 RUBBER AND MISC PLASTIC PROD	4,926	2,773	2,153		
3111 LEATHER AND LEATHER PRODUCTS	27,694	2,501	24,993		
3211 GLASS AND GLASS PRODUCTS	3,075	2,137	1,838		
3241 BUILDING CEMENT	127		127		
3291 STRUCTURAL CLAY PRODUCTS	4,225	450	3,766		
3293 CUT STONE AND STONE PRODUCTS	184	162	27		
3295 MISC NONMETALLIC MINERAL PROD	6,407	4,264	2,163		
3311 IRON AND STEEL PRIMARY FORMS	75	70	5		
3315 IRON, STEEL SHAPES, EXC SHEET	10,079	9,623	456		
3316 IRON AND STEEL PLATES, SHEETS	2,016		2,016		
3317 IRON AND STEEL PIPE AND TUBE	3,070	1,921	1,158		
3319 FERROALLOYS	2,217	603	1,618		
3319 IRON AND STEEL PRODUCTS, NEC	898	732	166		
3321 NONFERROUS METALS, NEC	1,253	608	629		
3322 COPPER ALLOYS, UNWORKED	261	178	87		
3323 LEAD AND ZINC, UNWORKED	1,634	1,632	4		
3324 ALUMINUM AND ALLOYS, UNWORKED	2,604	2,115	489		
3411 FABRICATED METAL PRODUCTS	51,442	48,263	3,179		
3511 MACHINERY, EXCEPT ELECTRICAL	56,775	14,292	42,463	10	10
3611 ELECTRICAL MACH. EQUIP	13,254	9,193	8,041		
3711 MOTOR VEHICLES, PARTS, EQUIP	32,697	22,820	9,877		
3721 AIRCRAFT AND PARTS	51	2	49		
3731 SHIPS AND BOATS	623	451	172		
3791 MISC TRANSPORTATION EQUIPMENT	510	19	499		
3811 INSTR, TIME, PHOTO, OPT GOODS	1,293	333	1,060		
3911 MISC MANUFACTURED PRODUCTS	6,239	5,653	586		
4011 IRON AND STEEL SCRAP	4,860	44	4,816		
4012 NONFERROUS METAL SCRAP	6,904	65	6,841		
4022 TEXTILE WASTE, SCRAP, SWEEP	220		220		
4024 PAPER WASTE AND SCRAP	24,012	329	23,683		
4111 WATER	1,800				1,800
4112 COMMODITIES, NEC	2,650	1,981	669		
9999 DEPARTMENT OF DEFENSE AND SCI	804		804		

## REDWOOD CITY HARBOR, CALIF.

SECTION INCLUDED: CHANNEL 500 FEET WIDE AND ABOUT 4 MILES LONG ACROSS SAN BRUNO SHOALS; A CHANNEL FROM DEEP WATER IN SAN FRANCISCO BAY TO STEINBERGER SLOUGH, CONTROLLING DEPTH: 29.4 FEET IN SAN BRUNO SHOAL CHANNEL; 21.0 FEET IN SAN FRANCISCO BAY TO BEACON NO. 6; 26.4 FEET TO BEACON NO. 15 AND BEGINNING OF (OUTER) TURNING BASIN NO. 1; 19.9 FEET IN TURNING BASIN NO. 1; 30.4 FEET TO (UPPER) TURNING BASIN NO. 2; 23.7 FEET IN TURNING BASIN 1.2 FEET TO HEAD OF NAVIGATION. PROJECT DEPTH: 30 FEET IN SAN BRUNO SHOAL CHANNEL; 30 FEET TO THE HEAD OF THE TURNING BASIN IN REDWOOD CREEK; 5 FEET TO STEINBERGER SLOUGH AND 4 FEET IN STEINBERGER SLOUGH.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1973	667,967	1978	674,131
1974	667,135	1979	775,379
1975	429,211	1980	951,242
1976	395,614	1981	827,459
1977	410,293	1982	593,361

## FREIGHT TRAFFIC, 1982

(SHORE TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
				COASTWISE	
		IMPORTS	EXPORTS	SHIPMENTS	RECEIPTS
TOTAL	593,361	1	207,618	233,654	112,086
0911 FRESH FISH, EXCEPT SHELLFISH	1				1
1402 SAND, GRAVEL, CRUSHED ROCK	108,542				108,542
1491 SALT	134,562		98,562	36,068	
2912 JET FUEL	3,545				3,545
3281 BUILDING CEMENT	197,654			197,654	
3711 MOTOR VEHICLES, PARTS, EQUIP	1	1			
4011 IRON AND STEEL SCRAP	109,056		109,056		
TOTAL TON-MILES	1,009,030				

**SAN FRANCISCO, CA, DISTRICT**

OAKLAND HARBOR, CALIF.

19

**SECTION INCLUDED:** OUTER AND INNER HARBOR FROM DEEP WATER IN SAN FRANCISCO BAY TO SAN LEANDRO BAY, A DISTANCE OF 8.5 MILES. CONTROLLING DEPTHS: 31.9 FEET IN THE ENTRANCE CHANNEL OF THE OUTER HARBOR TO BART TUBE; 28.6 TO ALBERD MILL; 32.5 TO SHED 5; 29.9 FEET IN THE ENTRANCE CHANNEL TO THE INNER HARBOR; 31.2 FEET IN INNER HARBOR TO FOOT OF FERRO STREET; 32.0 FEET TO POSEY TUBE; 32.0 FEET AT POSEY TUBE; 33.3 FEET TO FORTMAN BASIN; 17 FEET TO PARK STREET BRIDGE; 15.3 FEET IN TIDAL CANAL TO FRUITVALE AVENUE BRIDGE; 14.4 FEET IN TIDAL CANAL TO SAN LEANDRO BAY; 7 FEET IN NORTH CHANNEL OF BROOKLYN BASIN. PROJECT DEPTHS: 35 FEET IN THE ENTRANCE CHANNEL TO THE OUTER HARBOR; 35 FEET IN THE OUTER HARBOR; 35 FEET IN THE ENTRANCE CHANNEL TO THE INNER HARBOR; 35 FEET IN THE INNER HARBOR TO THE PARK STREET BRIDGE; 25 FEET IN THE TIDAL CANAL TO SAN LEANDRO BAY; 35 FEET FOR A DISTANCE OF 1,300 FEET THENCE 25 FEET IN NORTH CHANNEL OF BROOKLYN BASIN (MAINTAINED 18 FEET).

**COMPARATIVE STATEMENT OF TRAFFIC**

YEAR	TONS	ADDITIONAL TRAFFIC CAR FERRY-RAILROAD CARS			YEAR	TONS	ADDITIONAL TRAFFIC CAR FERRY-RAILROAD CARS		
		EMPTY	LOADED	TOTAL			EMPTY	LOADED	TOTAL
1973-----	7,434,679	7,230	5,848	15,087	1978-----	6,937,246	5,051	5,732	16,783
1974-----	6,811,770	6,392	7,785	14,177	1979-----	6,846,202	-----	-----	-----
1975-----	6,186,033	5,524	6,101	11,625	1980-----	7,313,533	-----	-----	-----
1976-----	6,634,278	4,955	5,601	10,556	1981-----	7,300,653	-----	-----	-----
1977-----	6,826,938	4,820	5,845	10,665	1982-----	6,905,134	-----	-----	-----

\* PASSENGERS--15,940.

**FREIGHT TRAFFIC, 1982**

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
		COASTWISE		SHIPMENTS	RECEIPTS	SHIPMENTS	RECEIPTS		
		IMPORTS	EXPORTS						
<b>TOTAL-----</b>	<b>6,905,134</b>	<b>1,808,259</b>	<b>3,001,970</b>	<b>443,678</b>	<b>880,763</b>	<b>910,838</b>	<b>5,587</b>	<b>5,039</b>	
0101 COTTON, RAW-----	368,156	-----	368,156	-----	-----	-----	-----	-----	
0102 BARLEY AND RYE-----	291	15	273	-----	3	-----	-----	-----	
0103 CORN-----	5,607	-----	5,572	-----	35	-----	-----	-----	
0104 OATS-----	6	6	-----	-----	-----	-----	-----	-----	
0105 RICE-----	50,362	2,382	41,973	-----	36,007	-----	-----	-----	
0106 BORGHUM BRAINS-----	2,519	-----	2,803	-----	26	-----	-----	-----	
0107 MEAT-----	1,213	-----	1,213	-----	-----	-----	-----	-----	
0111 SOYBEANS-----	791	-----	791	-----	-----	-----	-----	-----	
0119 OILSEEDS-----	11,354	437	10,917	-----	-----	-----	-----	-----	
0121 TOBACCO, LEAF-----	15,910	15,605	129	176	-----	-----	-----	-----	
0122 HAY AND PODDER-----	20	-----	-----	-----	20	-----	-----	-----	
0129 FIELD CROPS, NEC-----	3,119	693	2,826	-----	-----	-----	-----	-----	
0131 FRESH FRUITS-----	130,806	321	94,862	31,510	3,313	-----	-----	-----	
0132 BANANAS AND PLANTAINS-----	197	197	-----	-----	-----	-----	-----	-----	
0133 COFFEE-----	65,531	57,703	3,768	1,819	2,541	-----	-----	-----	
0135 COCOA BEANS-----	1,576	-----	-----	-----	-----	-----	-----	-----	
0161 FRESH AND FROZEN VEGETABLES-----	106,043	2,132	64,675	105	39,051	-----	-----	-----	
0151 LIVE ANIMALS-----	931	-----	-----	202	729	-----	-----	-----	
0161 ANIMALS AND PRODUCTS, NEC-----	12,213	1,246	9,180	-----	1,767	-----	-----	-----	
0191 MISCELLANEOUS FARM PRODUCTS-----	1,272	564	218	481	9	-----	-----	-----	
0204 CRUDE RUBBER AND ALLIED GUMS-----	3,691	3,613	280	-----	-----	-----	-----	-----	
0205 FOREST PRODUCTS, NEC-----	7,583	1,670	3,671	261	1,973	-----	-----	-----	
0211 FRESH FISH, EXCEPT SHELLFISH-----	19,114	1,600	15,125	-----	-----	2,381	-----	-----	
0212 SHELLFISH, EXCEPT PREPARED-----	8,974	3,256	4,700	39	585	5	-----	-----	
1011 IRON ORE AND CONCENTRATES-----	94	-----	94	-----	-----	-----	-----	-----	
1051 ALUMINUM ORES, CONCENTRATE, NEC-----	8,019	5,688	2,371	-----	-----	-----	-----	-----	
1093 NONFERROUS ORES, CONCENTRATE, NEC-----	5,703	766	3,540	-----	1,389	-----	-----	-----	
1121 COAL AND LIGNITE-----	1,934	-----	1,695	-----	30	-----	-----	-----	
1311 CRUDE PETROLEUM-----	5	5	-----	-----	-----	-----	-----	-----	
1411 LIMESTONE-----	1,306	7	1,299	-----	-----	-----	-----	-----	
1412 BUILDING STONE, UNHORNED-----	666	-----	666	-----	-----	351,470	-----	-----	
1462 SAND, GRAVEL, CRUSHED ROCK-----	354,364	40	2,334	-----	-----	-----	-----	-----	
1491 CLAY-----	16,971	854	16,117	-----	-----	-----	-----	-----	
1492 SALT-----	6,062	2	1,707	-----	4,353	-----	-----	-----	
1494 GYPSUM, CRUDE AND PLASTER-----	2,553	-----	2,553	-----	-----	-----	-----	-----	
1499 NONMETALLIC MINERALS, NEC-----	498	-----	498	-----	-----	-----	-----	-----	
1501 ORDNANCE AND ACCESSORIES-----	50,022	2,563	46,850	2	627	-----	-----	-----	
2011 MEAT, FRESH, CHILLED, FROZEN-----	2,243	1,279	829	-----	135	-----	-----	-----	
2022 MEAT AND PRODUCTS, NEC-----	119,465	12,217	77,276	571	29,401	-----	-----	-----	
2032 VEGETABLES AND PREP., NEC-----	6,864	3,144	3,580	-----	-----	-----	-----	-----	
2042 TALLOW, ANIMAL FATS AND OILS-----	15,740	-----	15,980	-----	-----	-----	-----	-----	
2015 ANIMAL BY-PRODUCTS, NEC-----	88,475	133	88,223	117	-----	-----	-----	-----	
2021 DAIRY PRODUCTS, NEC-----	9,985	2,005	1,292	-----	6,468	-----	-----	-----	
2022 DRIED MILK AND CREAM-----	11,402	232	11,170	-----	-----	-----	-----	-----	
2031 FISH AND SHELLFISH, PREPARED-----	15,332	11,566	3,768	-----	-----	-----	-----	-----	
2032 VEGETABLES AND PREP., NEC-----	130,302	25,347	59,197	3,823	50,735	-----	-----	-----	
2039 PREP FRUIT AND VEG JUICE, NEC-----	416,180	132,714	105,260	174,022	4,192	-----	-----	-----	
2061 WHEAT FLOUR AND SEMOLINA-----	9,015	-----	1,922	-----	7,093	-----	-----	-----	
2062 ANIMAL FEEDS-----	170,656	900	126,678	-----	45,078	-----	-----	-----	
2069 GRAIN MILL PRODUCTS, NEC-----	13,884	5,283	7,048	95	1,498	-----	-----	-----	
2065 SUGAR-----	18,961	240	13,293	3,878	1,550	-----	-----	-----	
2068 MOLASSES-----	90,276	-----	90	90,177	-----	-----	-----	-----	
2091 ALCOHOLIC BEVERAGES-----	172,466	75,739	34,858	365	61,484	-----	-----	-----	
2091 VEGETABLE OILS, MARC, SHORT-----	67,052	9,364	54,220	-----	6,260	-----	-----	-----	
2092 ANIMAL OILS AND FATS, NEC-----	121	101	20	-----	-----	-----	-----	-----	
2094 GROCERIES-----	51,502	-----	50	94	51,408	-----	-----	-----	
2099 MISCELLANEOUS FOOD PRODUCTS-----	160,756	30,394	116,682	1,086	11,894	-----	-----	-----	
2111 TOBACCO MANUFACTURES-----	12,816	3,889	8,069	4	56	-----	-----	-----	
2211 BASIC TEXTILE PRODUCTS-----	56,178	17,027	8,403	6	30,742	-----	-----	-----	
2212 TEXTILE FIBERS, NEC-----	29,562	-----	20,377	-----	185	-----	-----	-----	
2311 APPAREL-----	70,677	66,889	1,569	184	35	-----	-----	-----	
2611 LOGS-----	7,208	19	7,265	-----	-----	-----	-----	-----	
2615 FUEL WOOD, CHARCOAL, WASTES-----	1,033	31	230	31	735	-----	-----	-----	
2616 TIMBER, POSTS, POLES, PILING-----	579	2	560	-----	9	-----	-----	-----	
2616 WOOD CHIPS, STAVES, HOLDINGS-----	11,232	14	11,219	-----	-----	-----	-----	-----	
2621 LUMBER-----	80,797	3,195	76,592	161	2,889	-----	-----	-----	
2631 VENEER, PLYWOOD, WORKED WOOD-----	15,585	12,509	1,417	-----	1,519	-----	-----	-----	

## Waterborne Commerce of the United States, 1982

OAKLAND HARBOR, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1982--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
		IMPORTS	EXPORTS	COASTWISE		INTERNAL			
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
2801 WOOD MANUFACTURES, NEC-----	28,416	12,780	13,097	10	1,729	-----	-----	-----	
2511 FURNITURE AND FIXTURES-----	45,713	25,259	1,744	10,262	6,468	-----	-----	-----	
2611 PULP-----	19,527	3,032	15,005	-----	-----	-----	-----	-----	
2631 PAPER AND PAPERBOARD-----	69,935	12,962	49,618	63	7,292	-----	-----	-----	
2691 PULP AND PAPER PRODUCTS, NEC-----	46,627	2,249	20,601	-----	15,777	-----	-----	-----	
2711 PRINTED MATTER-----	16,561	5,135	5,451	-----	5,975	-----	-----	-----	
2611 CRUDE TAR, OIL, GAS PRODUCTS-----	14	-----	14	-----	-----	-----	-----	-----	
2612 DYES, PIGMENT, TANNING MATS-----	678	-----	678	-----	-----	-----	-----	-----	
2013 ALCOHOL-----	403	-----	45	334	24	-----	-----	-----	
2616 RADIOACTIVE MATERIALS, WASTES-----	323	-----	285	38	-----	-----	-----	-----	
2619 BASIC CHEMICALS AND PROD., NEC-----	134,144	15,163	113,157	3	5,821	-----	-----	-----	
2621 PLASTIC MATERIALS-----	191,517	16,179	176,171	-----	9,67	-----	-----	-----	
2622 SYNTHETIC RUBBER-----	17,678	-----	17,678	-----	-----	-----	-----	-----	
2623 SYNTHETIC (MAN-MADE) FIBERS-----	14,064	1,135	13,272	220	237	-----	-----	-----	
2631 DRUGS-----	8,146	965	6,686	9	526	-----	-----	-----	
2661 SOAP-----	21,420	676	13,374	6	7,162	-----	-----	-----	
2651 PAINTS-----	16,726	5,524	7,285	20	3,897	-----	-----	-----	
2661 GUM AND WOOD CHEMICALS-----	5,154	268	4,906	-----	-----	-----	-----	-----	
2671 NITROGENOUS CHEM FERTILIZERS-----	10,616	60	988	-----	9,570	-----	-----	-----	
2672 POTASSIUM CHEM FERTILIZERS-----	988	-----	357	-----	631	-----	-----	-----	
2673 PHOSPHATIC CHEM FERTILIZERS-----	1,116	107	1,009	-----	-----	-----	-----	-----	
2676 INSECTICIDES, DISINFECTANTS-----	12,402	1,080	10,519	-----	803	-----	-----	-----	
2679 FERTILIZER AND MATERIALS, NEC-----	2,579	690	1,365	-----	528	-----	-----	-----	
2691 MISCELLANEOUS CHEMICAL PROD-----	42,950	2,310	35,620	3,893	1,119	-----	-----	-----	
2611 GASOLINE-----	57,927	19,972	1,215	35,405	935	-----	-----	-----	
2912 JET FUEL-----	3,219	-----	-----	-----	-----	3,219	-----	-----	
2913 KEROSENE-----	240	-----	240	-----	-----	-----	-----	-----	
2614 DISTILLATE FUEL OIL-----	13,669	-----	36	-----	408	13,625	-----	-----	
2615 RESIDUAL FUEL OIL-----	543,721	9	-----	-----	166	537,298	1,209	8,639	
2616 LUBRICATING OILS AND GREASES-----	36,800	52	26,088	8,307	263	-----	-----	-----	
2617 NAPHTHA, PETROLEUM SOLVENTS-----	1	-----	-----	-----	1	-----	-----	-----	
2618 ASPHALT, TAR, AND PITCHES-----	3,828	-----	437	-----	2,991	-----	-----	-----	
2620 COKE, PETROLEUM COKE-----	45,975	0	45,965	-----	-----	-----	-----	-----	
2621 LIQUEFIED GASES-----	661	-----	691	-----	-----	-----	-----	-----	
2651 ASPHALT BUILDING MATERIALS-----	2,635	-----	1,281	39	1,375	-----	-----	-----	
2691 PETROLEUM AND COAL PROD., NEC-----	20,165	109	3,607	-----	12,091	-----	4,358	-----	
3011 RUBBER AND MISC PLASTIC PROD-----	56,147	43,081	10,798	191	2,081	-----	-----	-----	
3111 LEATHER AND LEATHER PRODUCTS-----	65,605	52,368	13,148	86	7	-----	-----	-----	
3211 GLASS AND GLASS PRODUCTS-----	25,080	11,129	7,827	16	6,108	-----	-----	-----	
3261 BUILDING CEMENT-----	1,784	223	1,088	-----	473	-----	-----	-----	
3251 STRUCTURAL CLAY PRODUCTS-----	11,923	8,146	2,638	-----	1,139	-----	-----	-----	
3271 LIME-----	206	-----	116	-----	90	-----	-----	-----	
3281 CUT STONE AND STONE PRODUCTS-----	3,869	3,605	63	-----	201	-----	-----	-----	
3291 MISC NONMETALLIC MINERAL PROD-----	78,225	44,722	8,731	516	23,756	500	-----	-----	
3313 SLAGS-----	68	-----	-----	-----	68	-----	-----	-----	
3314 IRON AND STEEL PRIMARY FORMS-----	3,024	575	13	20	2,416	-----	-----	-----	
3315 IRON, STEEL SHAPES, EXC SHEET-----	442,932	460,246	2,512	-----	174	-----	-----	-----	
3316 IRON AND STEEL PLATES, SHEETS-----	12,624	2,504	7,172	21	2,927	-----	-----	-----	
3317 IRON AND STEEL PIPE AND TUBE-----	98,617	88,878	6,286	23	3,230	-----	-----	-----	
3318 FERROALLOYS-----	2,702	2,093	609	-----	-----	-----	-----	-----	
3369 IRON AND STEEL PRODUCTS, NEC-----	6,091	1,718	1,812	-----	2,561	-----	-----	-----	
3381 NONFERROUS METALS, NEC-----	14,832	1,979	9,425	-----	3,428	-----	-----	-----	
3322 COPPER ALLOYS, UNWORKED-----	16,085	3,836	12,289	-----	-----	-----	-----	-----	
3323 LEAD AND ZINC, UNWORKED-----	2,300	1,311	878	-----	111	-----	-----	-----	
3324 ALUMINUM AND ALLOYS, UNWORKED-----	17,074	10,189	6,628	-----	57	-----	-----	-----	
3411 FABRICATED METAL PRODUCTS-----	138,624	81,062	28,662	3,066	24,715	1,119	-----	-----	
3511 MACHINERY, EXCEPT ELECTRICAL-----	201,871	89,532	99,386	6,567	5,936	30	20	-----	
3611 ELECTRICAL MACH AND EQUIP-----	142,130	99,738	36,812	921	4,471	-----	-----	-----	
3711 MOTOR VEHICLES, PARTS, EQUIP-----	114,545	54,194	23,294	6,610	30,447	-----	-----	-----	
3721 AIRCRAFT AND PARTS-----	536	40	467	1	28	-----	-----	-----	
3731 SHIPS AND BOATS-----	2,562	1,775	549	116	122	-----	-----	-----	
3791 MISC TRANSPORTATION EQUIPMENT-----	2,711	90	1,357	787	466	-----	-----	-----	
3811 INSTR, TIME, PHOTO, OPT GOODS-----	26,295	15,155	11,075	64	1	-----	-----	-----	
3911 MISC MANUFACTURED PRODUCTS-----	100,701	63,049	5,057	3,192	9,403	-----	-----	-----	
4011 IRON AND STEEL SCRAP-----	307,621	2,755	302,279	2,587	-----	-----	-----	-----	
4012 NONFERROUS METAL SCRAP-----	54,650	372	54,244	42	-----	-----	-----	-----	
4022 TEXTILE WASTE, SCRAP, SWEAT-----	4,311	4	4,307	-----	-----	-----	-----	-----	
4024 PAPER WASTE AND SCRAP-----	193,292	-----	193,180	112	-----	-----	-----	-----	
4112 COMMODITIES, NEC-----	262,062	18,101	3,597	48,191	192,093	-----	1,791	-----	
4116 WATERWAY IMPROVEMENT MAT-----	1,791	-----	-----	-----	-----	-----	1,791	-----	
4119 EMPTY CONTAINERS-----	2,952	-----	-----	2,901	51	-----	-----	-----	
9999 DEPARTMENT OF DEFENSE AND SCI-----	6,602	-----	6,602	-----	-----	-----	-----	-----	

**SAN FRANCISCO, CA, DISTRICT**

RICHMOND HARBOR, CALIF.

**21**

SECTION INCLUDED: INNER HARBOR, FROM DEEP WATER IN SAN FRANCISCO BAY TO THE HEAD OF SANTA FE CHANNEL, A DISTANCE OF ABOUT 5 MILES; OUTER HARBOR, FROM POINT RICHMOND TO POINT SAN PABLO AND THE NORTH SIDE OF POINT SAN PABLO; INCLUDES A CONNECTING CHANNEL TO THE RICHMOND LONG WHARF AND APPROACH AREA AND APPROACH AREAS AT POINT SAN PABLO AND POINT ORIENT. CONTROLLING DEPTHS: 34.0 FEET IN SOUTHAMPTON CHANNEL AND IN CONNECTING CHANNEL FROM SAN FRANCISCO BAY TO WHARF APPROACH AREA; 34.0 FEET IN APPROACH AREA TO RICHMOND LONG WHARFS; 30.8 FEET TO TURNING BASIN, POINT RICHMOND; 29.9 FEET IN TURNING BASIN; 29.4 FEET TO POINT POTRERO; 31.3 FEET IN TURNING BASIN AT POINT POTRERO; POINT POTRERO (SOUTHERLY APEX ONLY) 29.7 FEET; 31.0 FEET TO LAURITZEN CANAL THENCE 24.8 FEET IN SANTA FE CHANNEL TO UPPER TURNING BASIN; 24.7 FEET IN UPPER TURNING BASIN; 20.5 FEET IN APPROACH TO POINT ORIENT; 24.5 FEET IN APPROACH TO POINT SAN PABLO; 30.4 FEET AT MOLATE POINTS; AND 33.0 FEET IN WEST RICHMOND CHANNEL. PROJECT DEPTHS: 35 FEET IN CONNECTING CHANNEL FROM SAN FRANCISCO BAY TO WHARF APPROACH AREA; 35 FEET IN APPROACH AREA TO RICHMOND LONG WHARFS; 35 FEET TO TURNING BASIN; 35 FEET TO POINT POTRERO; 35 FEET IN SANTA FE CHANNEL FOR APPROXIMATELY 2,000 FEET THENCE 30 FEET IN THE REMAINDER OF SANTA FE CHANNEL AND TURNING BASIN; 20 FEET IN CHANNEL EAST OF POINT SAN PABLO CHANNEL; 32 FEET IN APPROACH TO POINT ORIENT; 32 FEET IN APPROACH TO POINT SAN PABLO.

**COMPARATIVE STATEMENT OF TRAFFIC**

YEAR	TONS	ADDITIONAL TRAFFIC CAR FERRY-RAILROAD CARS			YEAR	TONS	ADDITIONAL TRAFFIC CAR FERRY-RAILROAD CARS		
		EMPTY	LOADED	TOTAL			EMPTY	LOADED	TOTAL
1973-----	16,259,836	8,661	11,935	20,196	1978-----	18,986,001	3,516	5,567	6,083
1974-----	14,763,622	3,619	5,963	9,582	1979-----	16,978,302	3,648	4,246	7,894
1975-----	14,358,280	-----	-----	-----	1980-----	16,559,045	23,134	26,327	47,661
1976-----	20,165,240	4,903	4,760	8,663	1981-----	16,819,885	2,160	2,304	4,464
1977-----	23,022,500	3,206	3,699	7,007	1982-----	15,304,697	1,463	1,490	2,953

**FREIGHT TRAFFIC, 1982**

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
		IMPORTS	EXPORTS	COASTWISE		INTERNAL			
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
TOTAL-----	15,394,697	1,513,588	1,061,076	5,786,251	3,661,645	1,856,856	1,225,460	287,881	
0101 COTTON, RAW-----	7,180	-----	7,180	-----	-----	-----	-----	-----	
0103 CORN-----	67	-----	67	-----	-----	-----	-----	-----	
0105 RICE-----	8,331	1,359	9,772	-----	-----	-----	-----	-----	
0106 BORGHUS GRAINS-----	12	-----	12	-----	-----	-----	-----	-----	
0111 SOYBEANS-----	1,612	-----	1,612	-----	-----	-----	-----	-----	
0119 OILSEEDS, NEC-----	709	29	680	-----	-----	-----	-----	-----	
0121 TOBACCO, LEAF-----	1,621	1,621	-----	-----	-----	-----	-----	-----	
0129 FIELD CROPS, NEC-----	1,000	22	988	-----	-----	-----	-----	-----	
0131 FRESH FRUITS-----	7,412	13	7,399	-----	-----	-----	-----	-----	
0132 COFFEE-----	273	98	179	-----	-----	-----	-----	-----	
0141 FRESH AND FROZEN VEGETABLES-----	3,620	165	3,523	-----	-----	-----	-----	-----	
0161 ANIMALS AND PRODUCTS, NEC-----	272	259	13	-----	-----	-----	-----	-----	
0191 MISCELLANEOUS FARM PRODUCTS-----	320	300	20	-----	-----	-----	-----	-----	
0201 CRUDE RUBBER AND ALLIED GUMS-----	130	-----	130	-----	-----	-----	-----	-----	
0204 FOREST PRODUCTS, NEC-----	120	71	49	-----	-----	-----	-----	-----	
0211 FRESH FISH, EXCEPT SHELLFISH-----	1,039	3	311	-----	-----	725	-----	-----	
0212 SHELLFISH, EXCEPT PREPARED-----	300	17	377	-----	-----	-----	-----	-----	
0201 ALUMINUM ORES, CONCENTRATES-----	16,500	16,523	75	-----	-----	-----	-----	-----	
1001 NONFERROUS DRED, CONCENT, NEC-----	15,109	15,108	1	-----	-----	-----	-----	-----	
1121 COAL AND LIGNITE-----	36	-----	36	-----	-----	-----	-----	-----	
1311 CRUDE PETROLEUM-----	6,470,369	921,230	-----	4,100,330	124,545	1,252,256	-----	-----	
1411 LIMESTONE-----	62,210	62,105	113	-----	-----	-----	-----	-----	
1442 SAND, GRAVEL, CRUSHED ROCK-----	20,510	-----	-----	-----	-----	20,510	-----	-----	
1451 CLAY-----	24,041	17,856	6,185	-----	-----	-----	-----	-----	
1499 NONMETALLIC MINERALS, NEC-----	9,630	-----	9,630	-----	-----	-----	-----	-----	
1911 ORDNANCE AND ACCESSORIES-----	111	98	13	-----	-----	-----	-----	-----	
2011 MEAT, FRESH, CHILLED, FROZEN-----	37	6	31	-----	-----	-----	-----	-----	
2012 MEAT AND PRODUCTS, NEC-----	989	933	56	-----	-----	-----	-----	-----	
2016 TALLOW, ANIMAL FATS AND OILS-----	35,700	-----	38,760	-----	-----	-----	-----	-----	
2018 ANIMAL BY-PRODUCTS, NEC-----	3,474	-----	3,474	-----	-----	-----	-----	-----	
2021 DAIRY PRODUCTS, NEC-----	1,139	1,139	-----	-----	-----	-----	-----	-----	
2022 DRIED MILK AND CREAM-----	1,297	6	1,291	-----	-----	-----	-----	-----	
2023 FISH AND SHELLFISH, PREPARED-----	1,932	1,531	1	-----	-----	-----	-----	-----	
2024 VEGETABLES AND PREP, NEC-----	9,621	5,747	3,874	-----	-----	-----	-----	-----	
2029 PREP FRUIT AND VEG JUICE, NEC-----	19,020	2,973	15,451	600	-----	-----	-----	-----	
2042 ANIMAL FEEDS-----	4,791	1	4,683	-----	137	-----	-----	-----	
2049 GRAIN MILL PRODUCTS, NEC-----	1,843	1,561	302	-----	-----	-----	-----	-----	
2061 SUGAR-----	211,835	32	-----	-----	-----	211,803	-----	-----	
2061 ALCOMOLIC BEVERAGES-----	11,251	9,500	1,572	-----	171	-----	-----	-----	
2091 VEGETABLE OILS, MARG, SHORT-----	126,966	98,751	34,197	-----	-----	-----	-----	-----	
2092 ANIMAL OILS AND FATS, NEC-----	15	15	-----	-----	-----	-----	-----	-----	
2099 MISCELLANEOUS FOOD PRODUCTS-----	22,873	4,701	18,172	-----	-----	-----	-----	-----	
2111 TOBACCO MANUFACTURES-----	1	1	-----	-----	-----	-----	-----	-----	
2811 BASIC TEXTILE PRODUCTS-----	644	509	135	-----	-----	-----	-----	-----	
2812 TEXTILE FIBERS, NEC-----	1,361	-----	1,361	-----	-----	-----	-----	-----	
2811 APPAREL-----	459	620	39	-----	-----	-----	-----	-----	
2811 LOGWOOD, CHARCOAL, WASTES-----	200	2	200	-----	-----	-----	-----	-----	
2812 FUEL WOOD, CHARCOAL, POLES, PILING-----	2	-----	2	-----	-----	-----	-----	-----	
2821 LUMBER-----	1,000	6	1,000	-----	-----	100	-----	-----	
2851 VENEER, PLYWOOD, WORKED WOOD-----	20	20	-----	-----	-----	-----	-----	-----	
2861 WOOD MANUFACTURES, NEC-----	1,724	684	970	59	11	-----	-----	-----	
2861 FURNITURE AND FIXTURES-----	2,155	1,807	311	7	30	-----	-----	-----	
2861 PAPER AND PAPERBOARD-----	649	200	429	-----	-----	-----	-----	-----	
2861 PULP AND PAPER PRODUCTS, NEC-----	412	178	192	-----	42	-----	-----	-----	
2711 PRINTED MATTER-----	197	70	37	-----	-----	-----	-----	-----	
2010 BODIUM HYDROXIDE-----	125,358	-----	-----	110,214	7,144	-----	-----	-----	
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	94,399	-----	94,393	10,022	-----	6,984	7,000	-----	
2813 ALCOHOL-----	9,625	-----	9,625	-----	-----	-----	-----	-----	
2817 BENZENE AND TOLUENE-----	57,412	-----	-----	55,393	-----	-----	-----	2,919	
2819 BASIC CHEMICALS AND PROD, NEC-----	162,277	29,211	79,085	1,270	51,932	-----	-----	-----	
2821 PLASTIC MATERIALS-----	2,330	707	1,551	-----	-----	-----	-----	-----	
2822 SYNTHETIC RUBBER-----	21	-----	21	-----	-----	-----	-----	-----	
2823 SYNTHETIC (MAN-MADE) FIBERS-----	42	-----	42	-----	-----	-----	-----	-----	
2831 DRUGS-----	78	67	27	-----	-----	-----	-----	-----	

## Waterborne Commerce of the United States, 1982

RICHMOND HARBOR, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1982--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
		IMPORTS	EXPORTS	COASTWISE		INTERNAL			
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
2801 SOAP-----	4,137	2,771	1,366						
2851 PAINTS-----	1,724	1,288	436						
2861 GUM AND WOOD CHEMICALS-----	5,200			5,200					
2871 NITROGENOUS CHEM FERTILIZERS-----	8,318	41			8,277				
2872 POTASSIC CHEM FERTILIZERS-----	105		105						
2873 PHOSPHATIC CHEM FERTILIZERS-----	20	20							
2876 INSECTICIDES, DISINFECTANTS-----	21		21						
2879 FERTILIZER AND MATERIALS, NEC-----	336	59	9		266				
2891 MISCELLANEOUS CHEMICAL PRODS-----	17,677	221	2,520	13,220	1,700				
2911 GASOLINE-----	680,153	68,687	491	240,203	300,633	18,592	14,910	25,930	
2912 JET FUEL-----	724,064				232,462	349,370	130,786	42,026	
2913 KEROSENE-----	1,579				1,579				
2914 DISTILLATE FUEL OIL-----	951,452			33,264	265,701	590,510	19,130	23,122	
2915 RESIDUAL FUEL OIL-----	4,491,037			504,908	467,905	1,982,010	166,670	1,137,436	
2916 LUBRICATING OILS AND GREASES-----	262,209	3,976	37,814	70,521	114,416	26,440	586	1,340	
2917 NAPHTHA, PETROLEUM SOLVENTS-----	54,306				42,986	3,735		7,667	
2918 ASPHALT, TAR, AND PITCHES-----	235,196	110,327	153			124,716			
2920 COKE, PETROLEUM COKE-----	115			115					
2991 PETROLEUM AND COAL PROD, NEC-----	13,964	1,138	8	2,970	3,916	3,923			
3011 RUBBER AND MISC PLASTIC PROD-----	3,612	3,268	188						
3111 LEATHER AND LEATHER PRODUCTS-----	809	537	352						
3211 GLASS AND GLASS PRODUCTS-----	724	689	13			28			
3261 BUILDING CEMENT-----	18			18					
3291 STRUCTURAL CLAY PRODUCTS-----	368	176	192						
3261 CUT STONE AND STONE PRODUCTS-----	136	136							
3291 MISC NONMETALLIC MINERAL PROD-----	1,419	853	536		30				
3315 IRON, STEEL SHAPES, EXC SHEET-----	38,150	30,129	20		1				
3316 IRON AND STEEL PLATES, SHEETS-----	97		97						
3317 IRON AND STEEL PIPE AND TUBE-----	2,708	2,759	29						
3318 FERROALLOYS-----	4,025	4,456	109						
3349 IRON AND STEEL PRODUCTS, NEC-----	178	64	114						
3351 NONFERROUS METALS, NEC-----	2,502	1	2,501						
3352 COPPER ALLOYS, UNWORKED-----	9,705	35	9,670						
3353 LEAD AND ZINC, UNWORKED-----	142	16	126						
3354 ALUMINUM AND ALLOYS, UNWORKED-----	257	286	29						
3401 FABRICATED METAL PRODUCTS-----	15,999	4,365	1,083	400	9,306	845			
3501 MACHINERY, EXCEPT ELECTRICAL-----	8,560	4,355	1,366	25	2,302	10	910		
3601 ELECTRICAL MACH AND EQUIP-----	2,249	1,626	643						
3701 MOTOR VEHICLES, PARTS, EQUIP-----	44,708	44,254	448			86			
3721 AIRCRAFT AND PARTS-----	4		4						
3731 SHIPS AND BOATS-----	224	177	36	5					
3791 MISC TRANSPORTATION EQUIPMENT-----	121		46			73			
3801 INSTN, TIME, PHOTO, OPT GOODS-----	416	26	302						
3901 MISC MANUFACTURED PRODUCTS-----	5,562	5,200	202						
4001 IRON AND STEEL SCRAP-----	179,953		170,953						
4012 NONFERROUS METAL SCRAP-----	12,415	8	12,407						
4024 PAPER WASTE AND SCRAP-----	15,541		15,541						
4102 CONNOISSEURS, NEC-----	609	303	407	9		10			
4108 WATERWAY IMPROVEMENT MAT-----	1,047						1,047		
9999 DEPARTMENT OF DEFENSE AND SCI-----	685		645						

## SAN PABLO BAY AND MARE ISLAND STRAIT, CALIF.

SECTION INCLUDED: ALL OF SAN PABLO BAY AND MARE ISLAND STRAIT, CONTROLLING DEPTHS: PINOLE SHOAL CHANNEL 35.2 FEET FROM S. P. BUOY AT BEGINNING OF CHANNEL TO BUOY 8; 35.2 FEET TO BUOY 11; 35.0 FEET TO END OF CHANNEL IN MARE ISLAND STRAIT; THE MAINTAINED WESTERLY SECTION OF PROJECT WIDTH, 29.8 FEET TO THE NAVY AMMUNITION PIER; 28.6 FEET TO FINGER PIER NO. 21; 32.9 FEET TO A STREET (END OF MAINTAINED SECTION); 19.1 FEET TO THE END OF THE 30-FOOT PROJECT; 17.0 FEET TO THE END OF 26-FOOT PROJECT AT CAUSEWAY, PROJECT DEPTH: 45 FEET IN PINOLE SHOAL CHANNEL AND 36 FEET IN MARE ISLAND STRAIT, EXCEPT AT UPSTREAM END OF TURNING BABIN, 26 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1973-----	27,176,329	1978-----	29,097,916
1974-----	27,317,814	1979-----	26,119,814
1975-----	28,569,332	1980-----	30,961,639
1976-----	29,491,610	1981-----	31,582,250
1977-----	32,656,140	1982-----	31,177,922

\* PASSENGERS--11,359.

## FREIGHT TRAFFIC, 1982

## OCEANO GOING

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				THROUGH UPBOUND DOWNBOUND	
		IMPORTS	EXPORTS	COASTWISE		INTERNAL			
				UPBOUND	DOWNBOUND	RECEIPTS	SHIPMENTS		
TOTAL-----	25,296,620	343,146	103,874	1,928,874	3,527,841	1,841,255	1,434,825	10,305,286	
0101 COTTON, RAG-----	7,010				7,010				
0105 RICE-----	511,001				412,651			46,350	
0107 WHEAT-----	681,760				681,760				
0119 OILSEEDS, NEC-----	2,316				2,315				
0129 FIELD CROPS, NEC-----	126				111	15			
0131 FRESH FRUITS-----	7					7			

**SAN FRANCISCO, CA, DISTRICT**

SAN PABLO BAY AND MARIN ISLAND STRAIT, CALIF.--CONTINUED

23

FREIGHT TRAFFIC, 1982--CONTINUED

OCEANGOING--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC COASTWISE			
		IMPORTS	EXPORTS	THROUGH		SHIPMENTS	THROUGH		
				UPBOUND	DOWNBOUND		RECEIPTS	UPBOUND	DOWNBOUND
0133 COFFEE-----	123	-----	-----	115	8	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	66	-----	-----	66	-----	-----	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	22	-----	-----	22	-----	-----	-----	-----	-----
1051 ALUMINUM DRED, CONCENTRATES-----	5,672	-----	-----	5,672	-----	-----	-----	-----	-----
1181 COAL AND Lignite-----	167,584	-----	-----	-----	169,584	-----	-----	-----	-----
1311 CRUDE PETROLEUM-----	9,031,262	-----	-----	5,500	-----	1,540,175	19,074	6,471,594	1,794,913
1411 LIMESTONE-----	374,081	-----	-----	378,081	-----	-----	-----	-----	-----
1471 CLAY-----	26,578	-----	-----	-----	26,578	-----	-----	-----	-----
1479 PHOSPHATE ROCK-----	52,580	-----	-----	25,369	-----	-----	-----	27,211	-----
1479 NATURAL FERTILIZER MATS, NEC-----	5,012	-----	-----	5,012	-----	-----	-----	-----	-----
1492 SULPHUR, DRY-----	152,019	-----	-----	-----	152,019	-----	-----	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	147	-----	-----	-----	147	-----	-----	-----	-----
2014 TALLOW, ANIMAL FATS AND OILS-----	1,433	-----	-----	-----	1,433	-----	-----	-----	-----
2028 DRIED MILK AND CREAM-----	9,000	-----	-----	-----	9,000	-----	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	0	2	-----	0	-----	-----	-----	-----	-----
2034 VEGETABLES AND PREP, NEC-----	513	-----	-----	394	119	-----	-----	-----	-----
2035 PREP FRUIT AND VEG JUICE, NEC-----	3,506	-----	-----	3,426	80	-----	-----	-----	-----
2062 ANIMAL FEEDS-----	140,568	-----	-----	-----	134,175	-----	6,393	-----	-----
2064 GRAIN MILL PRODUCTS, NEC-----	10	-----	-----	-----	10	-----	-----	-----	-----
2061 SUGAR-----	788,570	-----	-----	-----	-----	-----	788,570	-----	-----
2066 MOLASSES-----	21,808	-----	-----	18,755	-----	-----	-----	3,053	-----
2081 ALCOLOMIC BEVERAGES-----	18	-----	-----	-----	18	-----	-----	-----	-----
2091 VEGETABLE OILS, MARG, SHORT-----	2,493	-----	-----	560	1,933	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	69	-----	-----	53	36	-----	-----	-----	-----
2251 BASIC TEXTILE PRODUCTS-----	39	-----	-----	39	-----	-----	-----	-----	-----
2311 APPAREL-----	190	-----	-----	190	-----	-----	-----	-----	-----
2311 LOGS-----	2,800	-----	-----	-----	2,800	-----	-----	-----	-----
2616 WOOD CHIPS, STAVES, HOLDINGS-----	298,001	-----	-----	-----	294,001	-----	-----	-----	-----
2691 WOOD MANUFACTURES, NEC-----	94	-----	-----	62	12	-----	-----	-----	-----
2711 FURNITURE AND FIXTURES-----	106	-----	-----	75	31	-----	-----	-----	-----
2681 PAPER AND PAPERBOARD-----	10,773	-----	-----	19,767	6	-----	-----	-----	-----
2711 PRINTED MATTER-----	2	-----	-----	1	1	-----	-----	-----	-----
2810 SODIUM HYDROXIDE-----	13,500	-----	-----	-----	-----	-----	13,500	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	1,555	-----	-----	-----	-----	-----	1,555	-----	-----
2817 BENZENE AND TOLUENE-----	17,591	-----	-----	-----	-----	-----	17,591	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	419,267	17,986	-----	131,293	5,895	-----	-----	212,424	51,669
2831 DRUGS-----	192	-----	-----	179	13	-----	-----	-----	-----
2851 PAINTS-----	0	-----	-----	0	-----	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	349,615	-----	-----	192,036	-----	-----	-----	157,579	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	35,168	-----	-----	-----	35,168	-----	-----	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	11	-----	-----	-----	11	-----	-----	-----	-----
2876 FERTILIZER AND MATERIALS, NEC-----	5,840	-----	-----	5,848	-----	-----	-----	-----	-----
2991 MISCELLANEOUS CHEMICAL PROD-----	525	-----	-----	-----	525	-----	-----	-----	-----
2993 GASOLINE-----	2,050,112	246,703	-----	497,579	261,950	280,827	593,218	155,036	1,058,199
2912 JET FUEL-----	202,160	-----	-----	-----	-----	-----	4,751	139,440	58,569
2913 KEROSENE-----	63,830	-----	17,998	33,821	-----	-----	-----	12,019	-----
2914 DISTILLATE FUEL OIL-----	3,386,001	-----	44,727	-----	36,365	19,728	669,044	1,211,042	1,405,175
2915 RESIDUAL FUEL OIL-----	3,052,635	-----	22,821	-----	522,684	-----	22,408	1,017,762	1,466,960
2916 LUBRICATING OIL AND GREASES-----	535,770	78,402	18,326	37,257	25,260	-----	126,330	96,594	153,599
2917 NAPHTHA, PETROLEUM SOLVENTS-----	45,161	-----	-----	-----	-----	-----	40,276	4,885	-----
2928 COKE, PETROLEUM COKE-----	747,231	-----	-----	747,231	-----	-----	-----	13,247	-----
2995 PETROLEUM AND COAL PROD, NEC-----	13,267	-----	-----	-----	-----	-----	-----	-----	-----
3111 RUBBER AND MISC PLASTIC PROD-----	70	-----	-----	58	12	-----	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	39	-----	-----	26	13	-----	-----	-----	-----
3251 GLASS AND GLASS PRODUCTS-----	29	-----	-----	29	-----	-----	-----	-----	-----
3261 BUILDING CEMENT-----	17,637	-----	-----	17,637	-----	-----	-----	-----	-----
3261 STRUCTURAL CLAY PRODUCTS-----	34	5	-----	-----	29	-----	-----	-----	-----
3261 MISCELLANEOUS MINERAL PROD-----	104	25	-----	79	-----	-----	-----	-----	-----
3265 IRON, STEEL SHAPED, EXC SHEET-----	13,225	-----	-----	15,202	23	-----	-----	-----	-----
3265 IRON AND STEEL PLATES, SHEETS-----	60	-----	-----	-----	66	-----	-----	-----	-----
3267 IRON AND STEEL PIPE AND TUBE-----	144	-----	-----	144	-----	-----	-----	-----	-----
3282 LEAD AND ZINC, UNWORKED-----	1	-----	-----	-----	1	-----	-----	-----	-----
3611 FABRICATED METAL PRODUCTS-----	610	-----	-----	139	471	-----	-----	-----	-----
3611 MACHINERY, EXCEPT ELECTRICAL-----	823	1	-----	74	501	207	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	402	15	-----	274	113	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	181,404	-----	-----	138,981	2,423	-----	-----	-----	-----
3781 AIRCRAFT AND PARTS-----	1	-----	-----	-----	1	-----	-----	-----	-----
3793 SHIPS AND BOATS-----	5	-----	-----	5	-----	-----	-----	-----	-----
3793 MISCELLANEOUS TRANSPORTATION EQUIPMENT-----	2	-----	-----	-----	2	-----	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	5	-----	-----	3	2	-----	-----	-----	-----
3818 MISCELLANEOUS MANUFACTURED PRODUCTS-----	95	-----	-----	95	-----	-----	-----	-----	-----
4112 IRON AND STEEL SCRAP-----	25,793	-----	-----	-----	25,793	-----	-----	-----	-----
4112 COMMODITIES, NEC-----	337	-----	-----	19	-----	318	-----	-----	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	1,895	-----	-----	-----	1,895	-----	-----	-----	-----

TON-MILES, OCEANGOING, 295,061,120.

INTERNAL

(SHORT TONS)

COMMODITY	TOTAL	INTERNAL			
		INBOUND	OUTBOUND	UPBOUND	DOWNBOUND
TOTAL-----	9,921,302	102,015	104,391	2,722	1,761,800
0911 FRESH FISH, EXCEPT SHELLFISH-----	2	-----	-----	1	-----
0912 SHELLFISH, EXCEPT PREPARED-----	1	-----	-----	1	-----

## Waterborne Commerce of the United States, 1982

SAN FRANCISCO BAY AND MARIN ISLAND STRAIT, CALIF.--CONTINUED

## FREIGHT TRAFFIC, 1982--CONTINUED

## INTERNAL--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	INBOUND	OUTBOUND	UPBOUND	DOWNBOUND	THROUGH	
						UPBOUND	DOWNBOUND
0051 MARINE SHELLS, UNMANUFACTURED--	10,000	-----	-----	-----	-----	10,000	-----
1311 CRUDE PETROLEUM--	1,956,382	83,171	-----	-----	-----	1,786,651	122,560
1402 SAND, GRAVEL, CRUSHED ROCK--	27,300	-----	-----	-----	-----	-----	27,300
1491 SALT--	165,270	-----	-----	-----	-----	165,270	-----
2001 SUGAR--	211,803	-----	-----	-----	-----	-----	211,803
2410 TIMBER, POSTS, POLES, PILING--	200	-----	-----	-----	-----	-----	200
2911 GASOLINE--	56,130	9,763	6,031	1,286	-----	56,085	30,163
2912 JET FUEL--	178,901	-----	-----	1,454	-----	4,183	173,004
2915 DISTILLATE FUEL OIL--	47,906	-----	28,653	-----	-----	113	19,142
2916 RESIDUAL FUEL OIL--	973,083	85,092	117,751	-----	-----	249,411	520,629
2917 LUBRICATING OILS AND GREASES--	26,400	-----	26,400	-----	-----	-----	-----
2918 NAPHTHA, PETROLEUM SOLVENTS--	5,500	-----	5,500	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC--	1,000	-----	-----	-----	-----	315	1,065
3241 BUILDING CEMENT--	650	-----	-----	-----	-----	650	-----
3291 MISC NONMETALLIC MINERAL PROD--	2,410	-----	-----	-----	-----	-----	2,410
3411 FABRICATED METAL PRODUCTS--	7,109	3,989	-----	-----	-----	1,376	2,004
3511 MACHINERY, EXCEPT ELECTRICAL--	655	-----	-----	-----	-----	510	145
4020 WASTE AND SCRAP, NEC--	1,761,400	-----	-----	-----	1,761,400	-----	-----
4110 WATERWAY IMPROVEMENT MAT--	489,304	-----	-----	-----	489,304	-----	-----

TON-MILES, INTERNAL, 72,310,150.

TONS, ALL TRAFFIC, 31,177,922.

TON-MILES, ALL TRAFFIC, 367,371,279.

## CARQUINEZ STRAIT, CALIF.

SECTION INCLUDED: ALL OF CARQUINEZ STRAIT FROM DAVIS POINT ON THE WESTERLY END TO THE BENICIA-MARTINEZ BRIDGE AT Suisun Point on the Easterly End, a distance of about 8 miles. Controlling depths: 33 feet. Project depths: 45 feet.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1973-----	22,579,619	1978-----	21,625,012
1974-----	22,379,267	1979-----	22,273,172
1975-----	23,954,799	1980-----	25,361,942
1976-----	26,246,013	1981-----	26,361,975
1977-----	24,740,621	1982-----	25,005,889

\* PASSENGERS--11,359.

## FREIGHT TRAFFIC, 1982

## OCEANOBOUND

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN			DOMESTIC		
		IMPORTS	EXPORTS	THROUGH		RECEIPTS	SHIPMENTS
				UPBOUND	DOWNBOUND		
TOTAL-----	21,533,520	678,927	797,473	849,147	2,730,360	9,312,676	4,888,231
0101 COTTON, RAW--	7,010	-----	-----	7,010	-----	-----	-----
0105 RICE--	511,001	-----	-----	412,651	-----	-----	98,350
0107 WHEAT--	881,764	-----	-----	881,764	-----	-----	-----
0119 OILSEEDS, NEC--	2,316	1	-----	2,315	-----	-----	-----
0120 FIELD CROPS, NEC--	126	111	-----	15	-----	-----	-----
0131 FRESH FRUITS--	7	-----	-----	7	-----	-----	-----
0133 COFFEE--	123	115	8	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES--	66	-----	20	66	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC--	22	-----	-----	22	-----	-----	-----
1051 ALUMINUM ORES, CONCENTRATES--	5,672	-----	5,672	-----	-----	-----	-----
1121 COAL AND LIGNITE--	169,580	-----	-----	169,580	-----	-----	-----
1311 CRUDE PETROLEUM--	8,272,613	5,806	-----	6,167,676	1,606,632	361,918	188,281
1411 LIMESTONE--	374,881	-----	374,881	-----	-----	-----	-----
1481 CLAY--	26,578	-----	-----	26,578	-----	-----	-----
1671 PHOSPHATE ROCK--	52,500	-----	25,360	-----	-----	-----	27,211
1870 NATURAL FERTILIZER MATS, NEC--	5,012	-----	5,012	-----	-----	-----	-----
1892 SULPHUR, DRY--	152,019	-----	-----	152,019	-----	-----	-----
1949 NONMETALLIC MINERALS, NEC--	147	-----	-----	147	-----	-----	-----
2016 TALLOW, ANIMAL FATS AND OILS--	1,453	-----	391	882	-----	-----	-----
2022 DRIED MILK AND CREAM--	9,896	-----	-----	9,896	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED--	6	6	-----	-----	-----	-----	-----
2034 VEGETABLES AND PREP, NEC--	513	398	70	-----	61	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC--	3,506	3,426	-----	-----	60	-----	-----
2042 ANIMAL FEEDS--	140,566	-----	-----	136,175	-----	-----	6,393
2049 GRAIN MILL PRODUCTS, NEC--	18	-----	10	-----	-----	-----	-----
2061 SUGAR--	788,570	-----	-----	788,570	-----	-----	-----
2062 MOLASSES--	21,808	-----	18,755	-----	3,053	-----	-----
2081 ALCOHOLIC BEVERAGES--	18	-----	17	-----	1	-----	-----
2091 VEGETABLE OILS, HARS, SHORT--	2,493	560	-----	-----	1,933	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS--	89	53	15	-----	21	-----	-----
2211 BASIC TEXTILE PRODUCTS--	39	30	-----	1	-----	-----	-----
2311 APPAREL--	190	114	74	-----	-----	-----	-----
2411 LOGS--	2,000	-----	-----	2,000	-----	-----	-----
2416 WOOD CHIPS, STAVES, HOLDINGS--	294,001	-----	-----	294,001	-----	-----	-----
2691 WOOD MANUFACTURES, NEC--	98	82	-----	12	-----	-----	-----

## SAN FRANCISCO, CA, DISTRICT

CARQUINNE STRAIT, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1962--CONTINUED

25

## OCEANGOING--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC COASTWISE			
		IMPORTS	EXPORTS	THROUGH		RECEIPTS	SHIPMENTS	THROUGH	
				UPBOUND	DOWNBOUND			UPBOUND	DOWNBOUND
2511 FURNITURE AND FIXTURES-----	106	75	-----	-----	31	-----	-----	-----	-----
2621 PAPER AND PAPERBOARD-----	19,773	-----	4	19,767	2	-----	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	6	6	-----	-----	-----	-----	-----	-----	-----
2751 PRINTED MATTER-----	2	-----	-----	1	1	-----	-----	-----	-----
2810 SODIUM HYDROXIDE-----	13,500	-----	-----	-----	-----	-----	-----	13,500	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	1,355	-----	-----	-----	-----	1,355	-----	-----	1,355
2817 BENZENE AND TOLUENE-----	17,591	-----	-----	-----	-----	-----	-----	17,591	-----
2819 BASIC CHEMICALS AND PROD., NEC-----	401,281	42	1,205	131,251	4,690	-----	-----	212,424	51,669
2821 PLASTIC MATERIALS-----	192	66	1	113	12	-----	-----	-----	-----
2831 DRUGS-----	8	8	-----	-----	-----	-----	-----	-----	-----
2851 PAINTS-----	58	45	-----	-----	13	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	349,615	-----	-----	192,036	-----	-----	-----	157,570	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	35,164	-----	-----	-----	35,164	-----	-----	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	11	-----	-----	-----	11	-----	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	5,046	-----	5,848	-----	-----	-----	-----	-----	-----
2901 MISCELLANEOUS CHEMICAL PRODS-----	525	-----	493	-----	38	-----	-----	-----	-----
2911 GASOLINE-----	1,737,364	457,927	-----	40,052	26,550	101,507	678,766	53,529	379,431
2912 JET FUEL-----	198,409	-----	-----	-----	-----	122,881	58,569	16,999	-----
2913 KEROSENE-----	45,840	33,821	-----	-----	-----	12,019	-----	-----	-----
2916 DISTILLATE FUEL OIL-----	2,652,582	-----	36,365	-----	-----	1,109,965	1,308,120	101,077	97,055
2915 RESIDUAL FUEL OIL-----	3,007,406	-----	466,656	-----	56,020	865,500	1,077,658	109,949	431,615
2916 LUBRICATING OILS AND GREASES-----	312,710	37,297	25,235	-----	25	96,594	153,599	-----	-----
2917 NAPHTHA, PETROLEUM SOLVENTS-----	45,161	-----	-----	-----	-----	40,276	4,885	-----	-----
2920 COKE, PETROLEUM COKE-----	747,231	-----	262,383	-----	484,846	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD., NEC-----	13,267	-----	-----	-----	-----	1,120	-----	12,127	-----
3011 RUBBER AND MISC PLASTIC PRODS-----	70	57	10	1	2	-----	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	39	26	-----	-----	13	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	29	24	-----	5	-----	-----	-----	-----	-----
3201 BUILDING CEMENT-----	17,637	-----	-----	17,637	-----	-----	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	29	-----	-----	-----	29	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	79	14	-----	65	-----	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	13,225	-----	-----	13,202	23	-----	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	66	-----	-----	-----	66	-----	-----	-----	-----
3347 IRON AND STEEL PIPE AND TUBE-----	144	140	-----	-----	-----	-----	-----	-----	-----
3383 LEAD AND ZINC, UNWORKED-----	1	-----	-----	-----	1	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	610	65	3	74	468	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	615	74	113	-----	420	-----	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	387	205	96	69	17	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	141,404	138,981	2,411	-----	12	-----	-----	-----	-----
3721 AIRCRAFT AND PARTS-----	1	-----	-----	-----	1	-----	-----	-----	-----
3731 SHIPS AND BOATS-----	5	5	-----	-----	-----	-----	-----	-----	-----
3391 MISC TRANSPORTATION EQUIPMENT-----	2	-----	2	-----	-----	-----	-----	-----	-----
3611 INSTN, TIME, PHOTO, OPT EQUIP-----	5	3	-----	-----	2	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	95	73	-----	22	-----	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	25,793	-----	-----	-----	25,793	-----	-----	-----	-----
4112 COMMODITIES, NEC-----	19	1	-----	10	-----	-----	-----	-----	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	1,695	-----	1,769	-----	106	-----	-----	-----	-----

TON-MILES, OCEANGOING, 146,086,311.

INTERNAL  
(SHORT TONS)

COMMODITY	TOTAL	INTERNAL			
		INBOUND	OUTBOUND	UPBOUND	DOWNBOUND
TOTAL-----	4,272,369	1,959,327	979,945	256,900	18,066
0911 FRESH FISH, EXCEPT SHELLFISH-----	2	2	-----	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	1	-----	-----	-----	1
1361 CRUDE PETROLEUM-----	1,883,074	1,760,514	33,704	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	27,300	-----	-----	-----	27,300
1491 SALT-----	165,270	-----	-----	-----	165,270
2001 SUGAR-----	211,803	-----	211,803	-----	-----
2810 TIMBER, POSTS, POLES, PILING-----	200	-----	-----	-----	200
2911 GASOLINE-----	76,891	24,023	23,604	16,259	-----
2912 JET FUEL-----	177,467	-----	173,084	-----	4,383
2914 DISTILLATE FUEL OIL-----	61,545	8,485	15,162	26,709	-----
2915 RESIDUAL FUEL OIL-----	1,159,380	166,019	322,588	213,932	7,756
2917 NAPHTHA, PETROLEUM SOLVENTS-----	15,816	39	-----	-----	10,308
2991 PETROLEUM AND COAL PROD., NEC-----	1,880	315	-----	-----	5,469
3201 BUILDING CEMENT-----	450	-----	-----	-----	450
3291 MISC NONMETALLIC MINERAL PROD-----	500	-----	-----	-----	500
3411 FABRICATED METAL PRODUCTS-----	1,216	-----	-----	-----	1,176
4160 WATERWAY IMPROVEMENT MAT-----	489,394	-----	-----	-----	489,394

TON-MILES, INTERNAL, 26,500,032.

TONS, ALL TRAFFIC, 25,805,889.

TON-MILES, ALL TRAFFIC, 172,586,343.

*Waterborne Commerce of the United States, 1982*

SUISUN BAY CHANNEL, CALIF.

SECTION INCLUDED: SUISUN BAY CHANNEL FROM SUISUN POINT AT WEST END OF BENICIA-MARTINEZ BRIDGE TO EAST REACH OF MIDDLEGROUND ISLAND TWENCE TO MOUTH OF NEW YORK SLOUGH, CONTROLLING DEPTH: 34.5 FEET FROM SUISUN POINT TO AVON WHARFS 31.6 FEET TO PRESTON POINT; 30.3 FEET TO MIDDLE POINTS 32.5 FEET THROUH EAST REACH MIDDLEGROUND ISLAND TO MOUTH OF NEW YORK SLOUGH, PROJECT DEPTH: 65 FEET FROM BENICIA-MARTINEZ BRIDGE TO POINT EDITH, 35 FEET FOR REMAINDER OF CHANNEL.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1973-----	7,901,233	1978-----	5,787,368
1974-----	7,573,079	1979-----	6,121,200
1975-----	8,664,782	1980-----	8,092,843
1976-----	8,210,165	1981-----	8,081,697
1977-----	7,920,404	1982-----	7,037,843

\* PASSENGERS--11,359.

FREIGHT TRAFFIC, 1982

FOREIGN

(SHORT TONS)

COMMODITY	TOTAL	IMPORTS	EXPORTS	THROUGH	
				UPBOUND	DOWNSOUND
TOTAL-----	3,379,515	40,098	82,578	809,949	2,647,700
0181 COTTON, RAW-----	7,010	-----	-----	-----	7,010
0105 RICE-----	412,651	-----	-----	-----	412,651
0107 WHEAT-----	881,764	-----	-----	-----	881,764
0119 OILSEEDS, NEC-----	2,316	-----	-----	-----	2,316
0120 FIELD CROPS, NEC-----	15	-----	-----	-----	15
0131 FRESH FRUITS-----	7	-----	-----	-----	7
0141 FRESH AND FROZEN VEGETABLES-----	66	-----	-----	-----	66
0161 ANIMALS AND PRODUCTS, NEC-----	22	-----	-----	22	-----
1051 ALUMINUM ORES, CONCENTRATES-----	5,672	-----	-----	5,672	-----
1121 COAL AND LIGNITE-----	169,580	-----	-----	-----	169,580
1411 LIMESTONE-----	374,081	-----	-----	374,081	-----
1451 CLAY-----	26,570	-----	-----	-----	26,570
1471 PHOSPHATE ROCK-----	25,360	-----	-----	25,360	-----
1475 NATURAL FERTILIZED MATS, NEC-----	5,012	-----	-----	5,012	-----
1492 SULPHUR, DRY-----	152,019	-----	-----	-----	152,019
1499 NONMETALLIC MINERALS, NEC-----	147	-----	-----	-----	147
2014 TALLOW, ANIMAL FATS AND OILS-----	882	-----	-----	-----	882
2022 DRIED MILK AND CREAM-----	9,896	-----	-----	-----	9,896
2034 VEGETABLES AND PREP., NEC-----	41	-----	-----	-----	41
2039 PREP FRUIT AND VEG JUICE, NEC-----	80	-----	-----	-----	80
2042 ANIMAL FEEDS-----	134,175	-----	-----	-----	134,175
2062 MOLASSES-----	16,755	-----	-----	16,755	-----
2081 ALCOHOLIC BEVERAGES-----	1	-----	-----	-----	1
2091 VEGETABLE OILS, MARG., SHORT-----	1,933	-----	-----	-----	1,933
2099 MISCELLANEOUS FOOD PRODUCTS-----	21	-----	-----	-----	21
2211 BASIC TEXTILE PRODUCTS-----	1	-----	-----	1	-----
2311 APPAREL-----	76	-----	-----	76	-----
2411 LOGS-----	2,800	-----	-----	-----	2,800
2416 WOOD CHIPS, STAVES, HOLDINGS-----	294,001	-----	-----	-----	294,001
2491 WOOD MANUFACTURES, NEC-----	12	-----	-----	-----	12
2511 FURNITURE AND FIXTURES-----	31	-----	-----	-----	31
2631 PAPER AND PAPERBOARD-----	19,769	-----	-----	19,769	-----
2711 PRINTED MATTER-----	2	-----	-----	1	1
2819 BASIC CHEMICALS AND PROD., NEC-----	135,941	-----	-----	131,251	4,690
2821 PLASTIC MATERIALS-----	125	-----	-----	113	12
2851 PAINTS-----	13	-----	-----	-----	13
2871 NITROGENOUS CHEM FERTILIZERS-----	192,036	-----	-----	192,036	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	35,164	-----	-----	-----	35,164
2876 INSECTICIDES, DISINFECTANTS-----	11	-----	-----	-----	11
2877 FERTILIZERS AND MATERIALS, NEC-----	5,646	-----	-----	5,646	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	32	-----	-----	-----	32
2911 GASOLINE-----	66,602	40,058	26,950	-----	-----
2915 RESIDUAL FUEL OIL-----	56,020	-----	56,020	-----	-----
2916 LUBRICATING OILS AND GREASES-----	25	-----	-----	-----	25
2920 COKE, PETROLEUM COKE-----	486,040	-----	-----	-----	486,040
3011 RUBBER AND MISC PLASTIC PROD-----	3	-----	-----	1	2
3111 LEATHER AND LEATHER PRODUCTS-----	13	-----	-----	-----	13
3211 GLASS AND GLASS PRODUCTS-----	5	-----	-----	5	-----
3241 BUILDING CEMENT-----	17,637	-----	-----	17,637	-----
3251 STRUCTURAL CLAY PRODUCTS-----	29	-----	-----	-----	29
3291 MISC NONMETALLIC MINERAL PROD-----	65	-----	-----	65	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	13,225	-----	-----	13,202	23
3316 IRON AND STEEL PLATES, SHEETS-----	60	-----	-----	-----	60
3323 LEAD AND ZINC, UNWORKED-----	1	-----	-----	-----	1
3411 FABRICATED METAL PRODUCTS-----	542	-----	-----	74	468
3511 MACHINERY, EXCEPT ELECTRICAL-----	420	-----	-----	-----	420
3611 ELECTRICAL MACH AND EQUIP-----	86	37	-----	32	17
3711 MOTOR VEHICLES, PARTS, EQUIP-----	12	-----	-----	-----	12
3721 AIRCRAFT AND PARTS-----	1	-----	-----	-----	1
3811 INSTR, TIME, PHOTO, OPT GOODS-----	2	-----	-----	-----	2
3911 MISC MANUFACTURED PRODUCTS-----	22	0	-----	13	-----
4011 IRON AND STEEL SCRAP-----	25,793	-----	-----	-----	25,793
4112 COMMODITIES, NEC-----	10	-----	-----	10	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	106	-----	-----	-----	106

TON-MILES, FOREIGN, 45,184,259.

## SAN FRANCISCO, CA, DISTRICT

27

SUISUN BAY CHANNEL, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1982--CONTINUED

## DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE				INTERNAL			
		RECEIPTS		SHIPMENTS		THROUGH		INTERNAL	
		UPBOUND	DOWNBOUND	INBOUND	OUTBOUND	UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND
TOTAL-----	3,458,320	602,376	1,096,382	427,921	150,019	195,323	245,514	720,131	11,662
0105 RICE-----	98,350	-----	-----	-----	98,350	-----	-----	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	1	-----	-----	-----	1	-----	-----	-----	-----
1311 CRUDE PETROLEUM-----	598,910	301,910	168,281	-----	-----	-----	100,710	-----	-----
1402 SAND, GRAVEL, CRUSHED ROCK-----	27,300	-----	-----	-----	-----	-----	22,620	-----	4,680
1671 PHOSPHATE ROCK-----	27,211	-----	-----	27,211	-----	-----	-----	-----	-----
1801 SALT-----	165,270	-----	-----	-----	-----	-----	-----	165,270	-----
2042 ANIMAL FEEDS-----	6,393	-----	-----	6,393	-----	-----	-----	-----	-----
2014 TIMBER, POSTS, POLES, PILING-----	200	-----	-----	-----	-----	-----	-----	-----	200
2010 SODIUM HYDROXIDE-----	13,500	-----	-----	13,500	-----	-----	-----	-----	-----
2017 BENZENE AND TOLUENE-----	17,591	17,591	-----	-----	-----	-----	-----	-----	-----
2019 BASIC CHEMICALS AND PROD., NEC-----	264,093	6,185	204,239	51,669	-----	-----	-----	-----	-----
2071 NITROGENOUS CHEM FERTILIZERS-----	197,979	-----	-----	157,579	-----	-----	-----	-----	-----
2011 GASOLINE-----	495,072	53,529	370,431	-----	-----	22,112	-----	-----	-----
2012 JET FUEL-----	21,362	-----	-----	16,990	-----	4,383	-----	-----	-----
2016 DISTILLATE FUEL OIL-----	213,070	101,677	97,055	-----	-----	7,300	7,633	-----	-----
2015 RESIDUAL FUEL OIL-----	889,473	169,584	431,615	-----	-----	178,162	90,865	72,660	6,242
2017 NAPHTHA, PETROLEUM SOLVENTS-----	5,469	-----	-----	-----	-----	5,469	-----	-----	-----
2091 PETROLEUM AND COAL PROD., NEC-----	13,692	12,127	-----	-----	-----	-----	1,585	-----	-----
3201 BUILDING CEMENT-----	650	-----	-----	-----	-----	-----	-----	650	-----
3291 MISC NONMETALLIC MINERAL PROD-----	500	-----	-----	-----	-----	-----	-----	-----	500
3011 FABRICATED METAL PRODUCTS-----	1,216	-----	-----	-----	-----	-----	-----	1,176	40
0100 WATERWAY IMPROVEMENT MAT-----	489,390	-----	-----	-----	-----	-----	-----	489,394	-----

TON-MILES, DOMESTIC, 21,169,520.

TONS, ALL TRAFFIC, 7,037,883.

TON-MILES, ALL TRAFFIC, 66,353,779.

## HUMBOLDT HARBOR AND BAY, CALIF.

SECTION INCLUDED: ENTRANCE CHANNEL TO BAY AND CHANNELS IN BAY BETWEEN ARCATA WHARF ON THE NORTH AND FIELDS LANDING ON THE SOUTH, CONTROLLING DEPTHS: BAR ENTRANCE CHANNEL, 39.7 FEET; CHANNEL BETWEEN THE JETTIES 37.0 FEET; CHANNEL AT INTERSECTION OF FIELDS LANDING AND NORTH BAY CHANNEL, 32.0 FEET; NORTH BAY CHANNEL, 24.9 FEET TO STANDARD OIL WHARF AT BUCKSPORT, 33.9 FEET FOR REMAINDER OF CHANNEL; SAMOA CHANNEL, 33.7 FEET; EUREKA CHANNEL, 36.8 FEET TO ANGLE IN CHANNEL, 11.8 FEET TO D STREET, 11.9 FEET TO HEAD OF PROJECT; FIELDS LANDING CHANNEL, 20.1 FEET TO SUNNE POINT, 18.4 FEET AT SUNNE POINT; 27.3 FEET TO TURNING BASIN, 28.5 FEET IN TURNING BASIN, 20.9 FEET IN SOUTHEAST CORNER OF TURNING BASIN. PROJECT DEPTHS: ENTRANCE CHANNEL, 40 FEET; NORTH BAY, SAMOA, AND LOWER PORTION OF EUREKA CHANNEL 30 FEET. UPPER PORTION OF EUREKA CHANNEL AND FIELDS LANDING CHANNEL, 26 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973-----	1,431,530	-----	1,431,530	1970-----	1,854,665	-----	1,854,665
1974-----	1,397,567	-----	1,397,567	1979-----	1,313,116	-----	1,313,116
1975-----	1,357,584	-----	1,357,584	1980-----	1,324,045	-----	1,324,045
1976-----	1,775,516	-----	1,775,516	1981-----	820,404	-----	820,404
1977-----	1,684,573	-----	1,684,573	1982-----	873,041	-----	873,041

## FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		IMPORTS	EXPORTS	INTERNAL	
				RECEIPTS	RECEIPTS
TOTAL-----	873,041	16,101	460,056	378,488	18,396
0105 RICE-----	99	-----	99	-----	-----
0912 FRESH FISH, EXCEPT SHELLFISH-----	17,056	-----	-----	-----	17,056
0912 SHELLFISH, EXCEPT PREPARED-----	1,340	-----	-----	-----	1,340
2012 MEAT AND PRODUCTS, NEC-----	19	19	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	3	3	-----	-----	-----
2034 VEGETABLES AND PREP., NEC-----	17	17	-----	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	1	1	-----	-----	-----
2069 GRAIN MILL PRODUCTS, NEC-----	41	41	-----	-----	-----
2081 ALCHOMOLIC BEVERAGES-----	6	6	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	98	98	-----	-----	-----
2511 APPAREL-----	3	3	-----	-----	-----
2811 LOBBS-----	75,005	-----	75,005	-----	-----
2816 WOOD CHIPS, STAVES, HOLDINGS-----	73,260	-----	73,260	-----	-----
2821 LUMBER-----	8,044	-----	8,044	-----	-----
2831 VENEER, PLYWOOD, WORKED WOOD-----	118	118	-----	-----	-----
2891 WOOD MANUFACTURED, NEC-----	3,390	102	3,288	-----	-----
2511 FURNITURE AND FIXTURES-----	52	52	-----	-----	-----
2511 PULP-----	303,925	-----	303,925	-----	-----
2511 PAPER AND PAPERBOARD-----	245	245	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	9	9	-----	-----	-----
2810 SODIUM HYDROXIDE-----	56,040	-----	-----	56,040	-----
2818 SULPHURIC ACID-----	3,300	-----	-----	3,300	-----
2019 BASIC CHEMICALS AND PROD., NEC-----	13,402	21	317	13,064	-----
2021 PLASTIC MATERIALS-----	22	22	-----	-----	-----

## Waterborne Commerce of the United States, 1982

HUMBOLDT HARBOR AND BAY, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1982--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		IMPORTS	EXPORTS	COASTWISE	INTERNAL
				RECEIPTS	RECEIPTS
2831 DRUGS-----	1	1			
2841 SOAP-----	22	22			
2851 PAINTS-----	40	40			
2861 GUM AND WOOD CHEMICALS-----	23	23			
2891 MISCELLANEOUS CHEMICAL PROD-----	27,000			27,000	
2911 GASOLINE-----	168,199			168,199	
2912 DISTILLATE FUEL OIL-----	65,227			65,227	
2915 RESIDUAL FUEL OIL-----	25,630			25,630	
3011 RUBBER AND MISC PLASTIC PROD-----	2	2			
3111 LEATHER AND LEATHER PRODUCTS-----	3	3			
3211 GLASS AND GLASS PRODUCTS-----	2	2			
3315 IRON, STEEL SHAPES, EXC SHEET-----	15,184	15,184			
3324 ALUMINUM AND ALLOYS, UNWORKED-----	18	18			
3411 FABRICATED METAL PRODUCTS-----	60	60			
3511 MACHINERY, EXCEPT ELECTRICAL-----	36	36			
3611 ELECTRICAL MACH AND EQUIP-----	4	4			
3711 MOTOR VEHICLES, PARTS, EQUIP-----	10	10			
3911 MISC MANUFACTURED PRODUCTS-----	3	3			
4112 COMMODITIES, NEC-----	34	34			

TOTAL TON-MILES, 4,359,483.

## SAN FRANCISCO, CA, DISTRICT

29

## OTHER HARBOURS AND WATERWAYS

HARBOUR OR WATERWAY	COMMODITY	TONS	TOTAL TONE TONES	PASSENGERS
<b>PROJECT</b>				
BERKELEY, CALIF.	0911 FRESH FISH, EXCEPT SHELLFISH	21		1,956
BODEGA BAY, CALIF.	0911 FRESH FISH, EXCEPT SHELLFISH	4,027		
	0912 SHELLFISH, EXCEPT PREPARED	61		
	<b>TOTAL</b>	<b>4,088</b>	<b>A,1A2</b>	
CRESCENT CITY HARBOR, CALIF.	0911 FRESH FISH, EXCEPT SHELLFISH	1,554		
	0912 SHELLFISH, EXCEPT PREPARED	4,944		
	2911 GASOLINE	67,570		
	2914 DISTILLATE FUEL OIL	21,143		
	<b>TOTAL</b>	<b>94,767</b>		
HALF MOON BAY, CALIF.	0911 FRESH FISH, EXCEPT SHELLFISH	581		
	0912 SHELLFISH, EXCEPT PREPARED	94		
	<b>TOTAL</b>	<b>655</b>		
MONTEREY HARBOR, CALIF.	0911 FRESH FISH, EXCEPT SHELLFISH	4,429		
	0912 SHELLFISH, EXCEPT PREPARED	11,922		
	<b>TOTAL</b>	<b>16,351</b>		
MOSC LANDING HARBOR, CALIF.	0911 FRESH FISH, EXCEPT SHELLFISH	8,573		
	0912 SHELLFISH, EXCEPT PREPARED	2,214		
	<b>TOTAL</b>	<b>10,787</b>		
NAPA RIVER, CALIF.	1491 SALT	165,270		
	3411 FABRICATED METAL PRODUCTS	7,120		
	4118 WATERWAY IMPROVEMENT MAT	35,309		
	<b>TOTAL</b>	<b>207,700</b>	<b>A,431,416</b>	
NOYO RIVER, CALIF.	0911 FRESH FISH, EXCEPT SHELLFISH	8,072		
	0912 SHELLFISH, EXCEPT PREPARED	205		
	<b>TOTAL</b>	<b>8,277</b>	<b>A,277</b>	
PETALUMA RIVER, CALIF.	0911 FRESH FISH, EXCEPT SHELLFISH	1		
	0931 MARINE SHELLS, UNMANUFACTURED	10,400		
	1442 SAND, GRAVEL, CRUSHED ROCK	27,300		
	3291 MISC NONMETALLIC MINERAL PROD	1,918		
	3511 MACHINERY, EXCEPT ELECTRICAL	455		
	<b>TOTAL</b>	<b>40,674</b>	<b>447,414</b>	
SAN RAFAEL CREEK, CALIF.	0911 FRESH FISH, EXCEPT SHELLFISH	2		
SANTA CRUZ HARBOR, CALIF.	0911 FRESH FISH, EXCEPT SHELLFISH	178		
	0912 SHELLFISH, EXCEPT PREPARED	2		
	<b>TOTAL</b>	<b>180</b>		
SUISUN CHANNEL, CALIF.	2915 RESIDUAL FUEL OIL	24,200	300,704	
<b>NONPROJECT</b>				
OTHER SAN FRANCISCO BAY AREA PORTS, CALIF. (NET)	0911 FRESH FISH, EXCEPT SHELLFISH	1,960		
	0912 SHELLFISH, EXCEPT PREPARED	2		
	0931 MARINE SHELLS, UNMANUFACTURED	10,800		
	1311 CRUDE PETROLEUM	5,970,676		
	1442 SAND, GRAVEL, CRUSHED ROCK	5,517		
	1451 CLAY	5,126		
	2031 VEGETABLES AND PREP., NEC	18		
	2211 BASIC TEXTILE PRODUCTS	2		
	2311 APPAREL	1		
	2491 WOOD MANUFACTURES, NEC	12		
	2631 PAPER AND PAPERBOARD	214		
	2811 CRUDE TAR, OIL, GAS PRODUCTS	4,944		
	2819 BASIC CHEMICALS AND PROD., NEC	9,448		
	2911 GASOLINE	9,416		
	2912 JET FUEL	69,920		
	2914 DISTILLATE FUEL OIL	67,172		
	2915 RESIDUAL FUEL OIL	69,454		
	2916 LUBRICATING OILS AND GREASES	1,401		
	2991 PETROLEUM AND COAL PROD., NEC	1,742		
	3111 LEATHER AND LEATHER PRODUCTS	72		
	3241 BUILDING CEMENT	19,389		
	3291 MISC NONMETALLIC MINERAL PROD	1,922		
	3411 FABRICATED METAL PRODUCTS	40		
	3511 MACHINERY, EXCEPT ELECTRICAL	125		
	3711 MOTOR VEHICLES, PARTS, FU/TP	1,902		
	3911 MISC MANUFACTURED PRODUCTS	1		
	4111 WATER	1,803		
	4118 WATERWAY IMPROVEMENT MAT	460,440		
	<b>TOTAL</b>	<b>7,884,721</b>		<b>1,661,683</b>

## PACIFIC OCEAN DIVISION

HILO HARBOR, HAWAII, HAWAII

SECTION INCLUDED: PORT OF HILO. CONTROLLING DEPTH: 34.5 FEET. PROJECT DEPTH: 35 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1973-----	1,041,667	-----	1978-----	1,272,734	3,207
1974-----	926,619	9,600	1979-----	1,220,438	-----
1975-----	1,053,879	13,613	1980-----	1,102,019	-----
1976-----	995,544	1,313	1981-----	1,041,590	-----
1977-----	1,013,430	8,381	1982-----	1,381,996	-----

## FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		
		IMPORTS	EXPORTS	COASTWISE		INTERNAL
				RECEIPTS	SHIPMENTS	RECEIPTS
TOTAL-----	1,301,996	19,027	19,033	820,316	525,097	523
0105 RICE-----	3,975	-----	-----	3,975	-----	-----
0122 HAY AND FODDER-----	29	-----	-----	27	2	-----
0131 FRESH FRUITS-----	3,268	-----	-----	469	2,819	-----
0133 COFFEE-----	475	-----	-----	11	464	-----
0141 FRESH AND FROZEN VEGETABLES-----	5,896	-----	-----	4,968	948	-----
0151 LIVE ANIMALS-----	1,690	-----	-----	974	716	-----
0161 ANIMALS AND PRODUCTS, NEC-----	614	-----	-----	614	-----	-----
0191 MISCELLANEOUS FARM PRODUCTS-----	1,338	-----	-----	-----	1,338	-----
0861 FOREST PRODUCTS, NEC-----	1,342	-----	-----	658	688	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	520	-----	-----	-----	520	-----
0912 SHELLFISH, EXCEPT PREPARED-----	446	-----	-----	442	1	3
1091 NONFERROUS ORES, CONCENT, NEC-----	43	-----	-----	43	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	6,217	-----	-----	-----	6,217	-----
1491 SALT-----	433	-----	-----	433	-----	-----
1494 GYPSUM, CRUDE AND PLASTER-----	497	-----	-----	497	-----	-----
1911 ORDNANCE AND ACCESSORIES-----	27	-----	-----	24	3	-----
2611 MEAT, FRESH, CHILLED, FROZEN-----	5,502	-----	-----	4,778	724	-----
2615 ANIMAL BY-PRODUCTS, NEC-----	371	-----	-----	-----	371	-----
2821 DAIRY PRODUCTS, NEC-----	355	-----	-----	333	-----	-----
2834 VEGETABLES AND PREP, NEC-----	21,280	-----	-----	4,504	11,716	-----
2835 PREP FRUIT AND VEG JUICE, NEC-----	1,680	-----	-----	710	939	-----
2841 WHEAT FLOUR AND SEMOLINA-----	833	-----	-----	833	-----	-----
2842 ANIMAL FEEDS-----	17,701	-----	-----	17,455	246	-----
2845 GRAIN MILL PRODUCTS, NEC-----	110	-----	-----	110	-----	-----
2861 SUGAR-----	214,689	-----	-----	23	214,666	-----
2862 MOLASSES-----	69,945	-----	19,033	-----	50,910	-----
2881 ALCOHOLIC BEVERAGES-----	12,874	-----	-----	12,874	-----	-----
2991 VEGETABLE OILS, MARC, SHORT-----	578	-----	-----	578	-----	-----
2994 GROCERIES-----	8,085	-----	-----	8,052	33	-----
2999 MISCELLANEOUS FOOD PRODUCTS-----	66,006	-----	-----	16,521	47,465	-----
2811 BASIC TEXTILE PRODUCTS-----	89	-----	-----	89	-----	-----
2813 FUEL WOOD, CHARCOAL, WASTES-----	336	-----	-----	329	9	-----
2814 TIMBER, POSTS, POLES, PILING-----	7	-----	-----	7	-----	-----
2821 LUMBER-----	14,626	-----	-----	12,004	2,024	-----
2831 VENEER, PLYWOOD, WORKED WOOD-----	2,534	-----	-----	2,534	-----	-----
2891 WOOD MANUFACTURES, NEC-----	12,052	-----	-----	3,469	8,583	-----
2511 FURNITURE AND FIXTURES-----	3,267	-----	-----	2,635	612	-----
2631 PAPER AND PAPERBOARD-----	709	-----	-----	688	21	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	18,310	-----	-----	17,963	347	-----
2711 PRINTED MATTER-----	75	-----	-----	75	-----	-----
2811 BASIC HYDROXIDE-----	1,756	-----	-----	1,756	-----	-----
2821 BASIC CHEMICALS AND PROD, NEC-----	1,995	-----	-----	1,984	11	-----
2822 PLASTIC MATERIALS-----	200	-----	-----	200	-----	-----
2831 DRUGS-----	10	-----	-----	10	-----	-----
2841 SOAP-----	1,454	-----	-----	1,454	-----	-----
2851 PAINTS-----	330	-----	-----	330	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	25,698	13,441	-----	12,257	-----	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	1,114	1,114	-----	-----	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	950	-----	-----	550	9	-----
2879 FERTILIZER AND MATERIALS, NEC-----	22,746	-----	-----	20,287	2,459	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	3,275	-----	-----	3,275	-----	-----
2891 GASOLINE-----	64,335	-----	-----	64,435	-----	-----
2891 JET FUEL-----	2,937	-----	-----	2,937	-----	-----
2811 DISTILLATE FUEL OIL-----	96,519	-----	-----	96,519	-----	-----
2811 RESIDUAL FUEL OIL-----	102,139	-----	-----	102,139	-----	-----
2811 ASPHALT, TAR, AND PITCHES-----	3,142	-----	-----	3,142	-----	-----
2821 LIQUEFIED GASES-----	13,511	4,472	-----	9,039	-----	-----
2891 PETROLEUM AND COAL PROD, NEC-----	1,413	-----	-----	1,413	-----	-----
3211 RUBBER AND MISC PLASTIC PROD-----	2,830	-----	-----	2,587	243	-----
3211 GLASS AND GLASS PRODUCTS-----	2,319	-----	-----	1,844	475	-----
3261 BUILDING CEMENT-----	22,662	-----	-----	22,862	-----	-----
3281 STRUCTURAL CLAY PRODUCTS-----	105	-----	-----	105	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	23	-----	-----	23	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	3,688	-----	-----	3,680	8	-----
3292 SLAG-----	60	-----	-----	60	-----	-----
3364 IRON AND STEEL PRIMARY FORMS-----	738	-----	-----	738	-----	-----
3381 IRON, STEEL SHAPES, EXC SHEET-----	2,294	-----	-----	2,292	7	-----
3381 IRON AND STEEL PLATES, SHEETS-----	1,537	-----	-----	1,537	-----	-----
3381 IRON AND STEEL PIPE AND TUBE-----	791	-----	-----	769	22	-----
3381 IRON AND STEEL PRODUCTS, NEC-----	386	-----	-----	386	-----	-----
3421 NONFERROUS METALS, NEC-----	22	-----	-----	22	-----	-----
3431 FABRICATED METAL PRODUCTS-----	302,358	-----	-----	170,079	123,279	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	554	-----	-----	480	74	-----
3611 ELECTRICAL MACH AND EQUIP-----	781	-----	-----	597	184	-----

PACIFIC OCEAN DIVISION

MILO HARBOR, HAWAII, HAWAII--CONTINUED

31

FREIGHT TRAFFIC, 1982--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		
		IMPORTS	EXPORTS	COASTWISE	SHIPMENTS	RECEIPTS
3711 MOTOR VEHICLES, PARTS, EQUIP-----	81,349	-----	-----	56,077	25,272	-----
3731 SHIPS AND BOATS-----	1,232	-----	-----	974	256	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	15,707	-----	-----	12,915	2,792	-----
3911 MISC MANUFACTURED PRODUCTS-----	3,719	-----	-----	3,030	669	-----
4011 IRON AND STEEL SCRAP-----	937	-----	-----	10	927	-----
4112 COMMODITIES, NEC-----	95,639	-----	-----	81,261	14,378	-----
4119 EMPTY CONTAINERS-----	134	-----	-----	2	132	-----

KAHIAHE HARBOR, HAWAII, HAWAII

SECTION INCLUDED: PORT OF KAHIAHE, CONTROLLING DEPTH: 38.6 FEET IN ENTRANCE CHANNEL AND 34.4 FEET IN HARBOR BASIN. PROJECT DEPTHS: HARBOR BASIN 35 FEET; ENTRANCE CHANNEL 40 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1973-----	385,850	1978-----	502,451
1974-----	291,036	1979-----	447,521
1975-----	279,687	1980-----	510,116
1976-----	263,562	1981-----	432,704
1977-----	316,197	1982-----	441,130

FREIGHT TRAFFIC, 1982

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	DOMESTIC		
		RECEIPTS	SHIPMENTS	RECEIPTS
TOTAL-----	881,130	204,084	236,996	58
0122 HAY AND FODDER-----	13	13	-----	-----
0151 LIVE ANIMALS-----	46,855	6,906	81,547	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	49	-----	-----	49
0912 SHELLFISH, EXCEPT PREPARED-----	1	-----	-----	1
1482 SAND, GRAVEL, CRUSHED ROCK-----	4,625	4,000	625	-----
1911 ORDNANCE AND ACCESSORIES-----	12	12	-----	-----
2030 VEGETABLES AND PREP., NEC-----	4,408	422	4,002	-----
2082 ANIMAL FEEDS-----	1,539	1,521	18	-----
2061 SUGAR-----	126,533	-----	126,533	-----
2081 ALCOHOLIC BEVERAGES-----	16	16	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	27,810	6,751	21,059	-----
2211 BABIC TEXTILE PRODUCTS-----	66	66	-----	-----
2221 LUMBER-----	1,375	1,315	60	-----
2351 VENEER, PLYWOOD, WORKED WOOD-----	70	70	-----	-----
2491 WOOD MANUFACTURES, NEC-----	3,513	1,618	1,895	-----
2511 FURNITURE AND FIXTURES-----	1,288	1,225	63	-----
2621 STANDARD NEWSPRINT PAPER-----	228	228	-----	-----
2631 PAPER AND PAPERBOARD-----	37	37	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	2,379	2,379	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	25	25	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	88	88	-----	-----
2872 POTASSIUM CHEM FERTILIZERS-----	110	110	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	609	435	374	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	11,534	11,534	-----	-----
2951 GASOLINE-----	9,767	9,767	-----	-----
2918 DISTILLATE FUEL OIL-----	16,372	16,372	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	18	18	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	55	55	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	292	292	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	497	454	43	-----
3211 GLASS AND GLASS PRODUCTS-----	177	158	19	-----
3261 BUILDING CEMENT-----	5,958	5,958	-----	-----
3281 STRUCTURAL CLAY PRODUCTS-----	18	18	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	405	405	-----	-----
3315 IRON, STEEL SHAPES, ETC SHEET-----	627	625	2	-----
3517 IRON AND STEEL PIPE AND TUBE-----	400	430	10	-----
3611 FABRICATED METAL PRODUCTS-----	78,917	67,605	11,312	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	7,878	5,801	2,077	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	30,627	18,906	11,721	-----
3731 SHIPS AND BOATS-----	2,656	1,231	1,427	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	15,512	10,509	5,003	-----
3911 MISC MANUFACTURED PRODUCTS-----	1,099	1,099	-----	-----
4011 IRON AND STEEL SCRAP-----	149	-----	149	-----
4112 COMMODITIES, NEC-----	34,585	27,588	6,997	-----

## Waterborne Commerce of the United States, 1982

KAHULUI HARBOR, MAUI, HAWAII

SECTION INCLUDED: PORT OF KAHULUI. CONTROLLING DEPTH: 34.3 FEET. PROJECT DEPTHS: 35 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1973	1,062,818	-----	1978	1,922,112	3,879
1974	982,110	9,600	1979	1,473,307	-----
1975	1,109,485	11,296	1980	1,481,524	-----
1976	1,270,420	1,307	1981	1,551,944	-----
1977	1,301,095	8,390	1982	1,483,955	-----

## FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		
		IMPORTS	EXPORTS	COASTWISE		INTERNAL
				RECEIPTS	SHIPMENTS	
TOTAL	1,403,955	16,936	10,677	877,351	579,108	63
0105 RICE-----	1,945	-----	7	1,938	-----	-----
0122 HAY AND FODDER-----	571	-----	-----	571	-----	-----
0131 FRESH FRUITS-----	1,987	-----	9	738	1,240	-----
0141 FRESH AND FROZEN VEGETABLES-----	6,471	-----	75	6,369	27	-----
0151 LIVE ANIMALS-----	6,246	-----	-----	2,120	4,118	-----
0161 ANIMALS AND PRODUCTS, NEC-----	5	-----	5	-----	-----	-----
0191 MISCELLANEOUS FARM PRODUCTS-----	128	-----	-----	-----	128	-----
0201 FOREST PRODUCTS, NEC-----	858	-----	788	70	-----	-----
0211 FRESH FISH, EXCEPT SHELLFISH-----	80	-----	-----	-----	80	-----
0212 SHELLFISH, EXCEPT PREPARED-----	217	-----	202	12	3	-----
1091 NONFERROUS ORES, CONCENT, NEC-----	65	-----	65	-----	-----	-----
1402 SAND, GRAVEL, CRUSHED ROCK-----	1,800	-----	-----	-----	1,800	-----
1451 CLAY-----	303	-----	303	-----	-----	-----
1491 SALT-----	55	-----	-----	55	-----	-----
1494 GYPSUM, CRUDE AND PLASTER-----	827	-----	827	-----	-----	-----
1911 ORDNANCE AND ACCESSORIES-----	2	-----	2	2	-----	-----
2011 MEAT, FRESH, CHILLED, FROZEN-----	4,195	-----	16	4,147	32	-----
2012 MEAT AND PRODUCTS, NEC-----	2	-----	2	-----	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC-----	58	-----	-----	58	-----	-----
2021 DAIRY PRODUCTS, NEC-----	580	-----	580	-----	-----	-----
2022 DRIED MILK AND CREAM-----	3	-----	3	-----	-----	-----
2034 VEGETABLES AND PREP, NEC-----	17,008	-----	9	6,385	10,610	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	120,010	-----	18	476	119,516	-----
2041 WHEAT FLOUR AND SEMOLINA-----	176	-----	-----	138	38	-----
2042 ANIMAL FEEDS-----	20,090	-----	-----	20,019	71	-----
2049 GRAIN MILL PRODUCTS, NEC-----	62	-----	62	-----	-----	-----
2061 SUGAR-----	105,665	-----	3	45	105,617	-----
2062 MOLASSES-----	51,851	-----	10,246	-----	41,603	-----
2081 ALCOHOLIC BEVERAGES-----	13,619	-----	13	13,578	28	-----
2091 VEGETABLE OILS, MARC, SHORT-----	2,080	-----	-----	2,080	-----	-----
2094 GROCERIES-----	5,684	-----	-----	5,662	22	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	33,145	-----	6	22,570	10,569	-----
2111 TOBACCO MANUFACTURES-----	1	-----	1	-----	-----	-----
2251 BASIC TEXTILE PRODUCTS-----	318	-----	-----	318	-----	-----
2413 FUEL WOOD, CHARCOAL, WABTES-----	229	-----	-----	229	-----	-----
2421 TIMBER, POSTS, POLES, PILING-----	185	-----	-----	46	139	-----
2422 LUMBER-----	5,723	-----	-----	5,614	109	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	1,573	-----	-----	1,573	-----	-----
2491 WOOD MANUFACTURES, NEC-----	14,197	-----	-----	4,666	9,531	-----
2511 FURNITURE AND FIXTURES-----	3,646	-----	-----	3,301	345	-----
2631 PAPER AND PAPERBOARD-----	1,106	-----	-----	1,086	20	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	20,951	-----	8	20,294	649	-----
2711 PRINTED MATTER-----	12	-----	-----	12	-----	-----
2810 SODIUM HYDROXIDE-----	934	-----	-----	934	-----	-----
2813 ALCOHOLS-----	96	-----	-----	96	-----	-----
2816 SULPHURIC ACID-----	65	-----	-----	65	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	357	-----	17	340	-----	-----
2821 PLASTIC MATERIALS-----	242	-----	36	206	-----	-----
2831 DRUGS-----	21	-----	-----	21	-----	-----
2841 SOAP-----	981	-----	-----	981	-----	-----
2851 PAINTS-----	146	-----	-----	146	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	10,852	1,725	-----	9,127	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	270	-----	-----	270	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	3,830	-----	-----	3,830	-----	-----
2901 MISCELLANEOUS CHEMICAL PROD-----	1,114	-----	-----	614	500	-----
2911 GASOLINE-----	64,924	-----	-----	62,713	2,211	-----
2912 JET FUEL-----	5,491	-----	-----	5,048	443	-----
2914 DISTILLATE FUEL OIL-----	117,953	-----	-----	116,872	1,081	-----
2915 RESIDUAL FUEL OIL-----	79,298	-----	-----	79,298	-----	-----
2916 LUBRICATING OIL AND GREASES-----	149	-----	1	148	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	4,509	-----	-----	4,509	-----	-----
2921 LIQUEFIED GASES-----	10,451	1,930	-----	8,521	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	96	-----	-----	96	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	1,708	-----	-----	1,708	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	2,250	-----	-----	2,056	192	-----
3211 GLASS AND GLASS PRODUCTS-----	1,165	-----	-----	733	432	-----
3261 BUILDING CEMENT-----	26,599	-----	-----	26,547	52	-----
3271 STRUCTURAL CLAY PRODUCTS-----	61	-----	-----	61	-----	-----
3273 LIME-----	59	-----	-----	59	-----	-----
5291 MISC NONMETALLIC MINERAL PROD-----	4,816	-----	-----	4,800	16	-----
5292 SLAG-----	22	-----	-----	22	-----	-----
5293 IRON AND STEEL PRIMARY FORMS-----	332	-----	-----	332	-----	-----
5295 IRON, STEEL SHAPES, EXC SHEET-----	18,026	12,768	-----	1,238	-----	-----
5296 IRON AND STEEL PLATED, SHEETS-----	933	-----	-----	933	-----	-----
5297 IRON AND STEEL PIPE AND TUBE-----	1,705	-----	-----	1,705	-----	-----
5299 IRON AND STEEL PRODUCTS, NEC-----	51	-----	-----	51	-----	-----
5321 NONFERROUS METALS, NEC-----	21	-----	-----	21	-----	-----

PACIFIC OCEAN DIVISION

KAHULUI HARBOR, MAUI, HAWAII--CONTINUED

FREIGHT TRAFFIC, 1982--CONTINUED

(SHORT TONS)

33

COMMODITY	TOTAL	FOREIGN		DOMESTIC		
		IMPORTS	EXPORTS	COASTWISE		INTERNAL
				RECEIPTS	SHIPMENTS	
3411 FABRICATED METAL PRODUCTS-----	327,980			221,368	106,612	
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,663			1,536	127	
3611 ELECTRICAL MACH AND EQUIP-----	1,138			975	163	
3711 MOTOR VEHICLES, PARTS, EQUIP-----	128,926	493		78,607	46,024	
3721 AIRCRAFT AND PARTS-----	2			2		
3731 SHIPS AND BOATS-----	1,550			1,282	266	
3791 MISCELLANEOUS TRANSPORTATION EQUIPMENT-----	20,429			11,316	9,113	
3911 MISC MANUFACTURED PRODUCTS-----	4,651			4,215	436	
4011 IRON AND STEEL SCRAP-----	2,080				2,060	
4112 COMMODITIES, NEC-----	19,927			97,375	22,562	
4119 EMPTY CONTAINERS-----	309			21	366	

BARBERS POINT HARBOR, OAHU, HAWAII

SECTION INCLUDED: BARBERS POINT HARBOR. CONTROLLING DEPTH: 21 FEET IN THE ENTRANCE CHANNEL AND 20 FEET IN THE BASIN. PROJECT DEPTH: 42 FEET IN THE ENTRANCE CHANNEL; 38 FEET IN THE DEEP-DRAFT HARBOR BASIN; 12 FEET IN MAIN ACCESS CHANNEL TO LIGHT-DRAFT HARBOR.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1973-----	3,944,857	1978-----	6,366,888
1974-----	4,360,221	1979-----	6,154,541
1975-----	5,185,659	1980-----	5,725,722
1976-----	6,593,497	1981-----	5,589,781
1977-----	6,630,994	1982-----	5,707,386

\* PASSENGERS--5.

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		IMPORTS	EXPORTS	COASTWISE	
				RECEIPTS	SHIPMENTS
TOTAL-----	3,707,386	2,129,702	368,859	2,772,699	216,781
1311 CRUDE PETROLEUM-----	4,283,466	2,295,488		1,907,978	
2911 GASOLINE-----	217,020	54,292	83,542		79,186
2912 JET FUEL-----	9,670				9,670
2914 DISTILLATE FUEL OIL-----	187,981		53,143	73,511	1,677
2915 RESIDUAL FUEL OIL-----	1,023,770		232,119	710,720	88,931
2917 KAPALAMA, PETROLEUM SOLVENTS-----	24,014				24,014
2921 LIQUEFIED GASES-----	21,053				21,053
3511 MACHINERY, EXCEPT ELECTRICAL-----	12		12		

HONOLULU HARBOR, OAHU, HAWAII

SECTION INCLUDED: PORT OF HONOLULU. CONTROLLING DEPTH: 45.0 FEET IN THE ENTRANCE CHANNEL; 39.0 FEET IN THE MAIN HARBOR BASIN; 30.0 FEET IN KAPALAMA BASIN; 40.0 FEET IN THE CONNECTING CHANNEL; 32.2 FEET IN KALIHI CHANNEL. PROJECT DEPTH: 45.0 FEET IN THE ENTRANCE CHANNEL; 40 FEET IN HARBOR BASIN, CONNECTING CHANNEL; 39.0 FEET IN KALIHI CHANNEL.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1973-----	6,166,466	989,100	1978-----	7,750,537	183,721
1974-----	7,856,891	987,475	1979-----	7,663,663	311,899
1975-----	7,935,183	1,073,125	1980-----	7,646,270	547,262
1976-----	7,189,538	1,390,524	1981-----	8,269,671	521,624
1977-----	6,881,556	303,291	1982-----	7,593,097	463,466

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		
		IMPORTS	EXPORTS	COASTWISE		INTERNAL
				RECEIPTS	SHIPMENTS	
TOTAL-----	7,593,097	870,710	179,450	3,326,386	3,216,219	132
0102 BARLEY AND RYE-----	3			3		
0103 CORN-----	137		75	62		
0105 RICE-----	46,642	139	674	36,579	7,250	
0106 BORGHAM GRAINS-----	45			45		
0107 WHEAT-----	20,190			20,190		
0111 SOYBEANS-----	486	5		481		
0119 OILSEEDS, NEC-----	66	24	22			
0121 TOBACCO, LEAF-----	66	68				
0122 HAY AND FODDER-----	7,656			7,768	90	

## Waterborne Commerce of the United States, 1982

HONOLULU HARBOR, OAHU, HAWAII--CONTINUED

## FREIGHT TRAFFIC, 1982--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		
		IMPORTS	EXPORTS	COASTWISE		INTERNAL SHIPMENTS
				RECEIPTS	SHIPMENTS	
0129 FIELD CROPS, NEC-----	32	32	-----	-----	-----	-----
0131 FRESH FRUITS-----	375,586	1,200	1,105	291,418	61,775	-----
0133 COFFEE-----	3,612	1	112	3,027	472	-----
0141 FRESH AND FROZEN VEGETABLES-----	117,471	474	54	100,529	16,414	-----
0151 LIVE ANIMALS-----	63,154	-----	-----	53,528	9,630	-----
0161 ANIMALS AND PRODUCTS, NEC-----	4,347	224	51	3,410	662	-----
0191 MISCCELLANEOUS FARM PRODUCTS-----	3,381	1	155	1,475	1,750	-----
0861 FOREST PRODUCTS, NEC-----	8,297	252	-----	5,459	2,586	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	7,614	7,486	41	-----	127	-----
0912 SHELLFISH, EXCEPT PREPARED-----	5,603	364	4	3,429	1,801	5
1091 NONFERROUS ORES, CONCENT, NEC-----	2,220	-----	-----	2,098	130	-----
1121 COAL AND LIGNITE-----	54,433	56,351	42	-----	-----	-----
1311 CRUDE PETROLEUM-----	520,657	520,657	-----	-----	-----	-----
1411 LIMESTONE-----	7	7	-----	-----	-----	-----
1412 BUILDING STONE, UNWORKED-----	3	3	3	3	3	-----
1462 SAND, GRAVEL, CRUSHED ROCK-----	97,812	78,105	-----	10,867	8,040	-----
1451 CLAY-----	866	-----	2	539	303	-----
1471 PHOSPHATE ROCK-----	40	-----	-----	40	-----	-----
1491 SALT-----	4,995	-----	19	4,888	488	-----
1494 GYPSUM, CRUDE AND PLASTER-----	5,713	-----	-----	4,304	1,409	-----
1499 NONMETALLIC MINERALS, NEC-----	12,002	12	-----	12,050	-----	-----
1911 ORDNANCE AND ACCESSORIES-----	76	10	-----	3	65	-----
2011 MEAT, FRESH, CHILLED, FROZEN-----	99,808	6,743	344	81,285	11,436	-----
2012 MEAT AND PRODUCTS, NEC-----	207	29	170	-----	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC-----	1,003	-----	-----	502	501	-----
2021 DAIRY PRODUCTS, NEC-----	12,068	558	2	10,554	954	-----
2022 DRIED MILK AND CREAM-----	900	543	357	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	3,555	3,546	9	-----	-----	-----
2034 VEGETABLES AND PREP, NEC-----	161,026	3,358	133	129,648	27,889	-----
2059 PREP FRUIT AND VEG JUICE, NEC-----	620,059	3,136	6,272	129,270	281,581	-----
2061 WHEAT FLOUR AND SEMOLINA-----	13,850	-----	1,999	10,842	1,009	-----
2062 ANIMAL FEEDS-----	144,938	2,204	636	94,011	47,887	-----
2064 GRAIN MILL PRODUCTS, NEC-----	4,618	1,643	372	2,420	183	-----
2065 SUGAR-----	156,521	13,889	1,300	2,242	139,090	-----
2066 MOLASSES-----	336,554	-----	7,165	136,830	192,559	-----
2081 ALCOHOLIC BEVERAGES-----	182,779	3,721	804	146,122	32,128	-----
2091 VEGETABLE OILS, MARG, SHORT-----	20,237	183	141	17,033	2,880	-----
2094 GROCERIES-----	102,780	-----	-----	85,496	17,244	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	186,195	5,018	1,878	112,582	66,717	-----
2111 TOBACCO MANUFACTURES-----	3,769	79	31	3,653	6	-----
2211 BASIC TEXTILE PRODUCTS-----	11,096	1,633	49	8,956	458	-----
2212 TEXTILE FIBERS, NEC-----	190	-----	-----	190	-----	-----
2411 APPAREL-----	565	464	23	63	15	-----
2413 LOGS-----	515	-----	148	367	-----	-----
2415 FUEL WOOD, CHARCOAL, WASTES-----	3,048	-----	10	2,369	669	-----
2421 TIMBER, POSTS, POLES, PILING-----	338	40	-----	141	157	-----
2421 LUMBER-----	134,590	1,912	534	118,543	13,609	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	24,226	267	186	20,007	2,966	-----
2491 WOOD MANUFACTURES, NEC-----	111,437	966	57	46,358	66,058	-----
2511 FURNITURE AND FIXTURES-----	73,093	2,429	38	33,197	37,429	-----
2611 PULP-----	46	-----	-----	46	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	7,151	-----	-----	7,151	-----	-----
2631 PAPER AND PAPERBOARD-----	49,273	26,486	12	20,394	2,381	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	116,708	1,077	50	72,852	42,729	-----
2711 PRINTED MATTER-----	6,682	580	19	5,945	98	-----
2810 SODIUM HYDROXIDE-----	4,365	-----	-----	4,363	2	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	77	-----	-----	77	-----	-----
2812 DYES, PIGMENT, TANNING MATS-----	1,203	-----	-----	1,203	-----	-----
2813 ALCOHOL-----	586	-----	-----	116	430	-----
2816 RADIOACTIVE MATERIALS, WASTES-----	86	-----	-----	45	41	-----
2818 SULPHURIC ACID-----	149	-----	-----	149	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	13,094	223	32	11,257	1,692	-----
2821 PLASTIC MATERIALS-----	4,097	125	46	3,636	490	-----
2823 SYNTHETIC (MAN-MADE) FIBERS-----	286	27	-----	261	-----	-----
2831 DRUGS-----	3,445	89	24	3,283	49	-----
2841 SOAP-----	32,747	155	356	29,256	2,978	-----
2851 PAINTS-----	12,626	15	41	11,005	765	-----
2861 GUM AND WOOD CHEMICALS-----	32	-----	-----	15	17	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	61,589	14,353	-----	33,692	13,544	-----
2872 POTASSIUM CHEM FERTILIZERS-----	621	-----	-----	621	-----	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	404	301	103	-----	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	3,637	-----	4	2,847	1,186	-----
2879 FERTILIZER AND MATERIALS, NEC-----	17,467	411	246	8,607	8,203	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	2,248	311	9	1,590	338	-----
2911 GASOLINE-----	266,756	27,902	9,063	34,296	189,695	-----
2912 JET FUEL-----	49,298	-----	-----	39,506	9,792	-----
2913 KEROSENE-----	554	-----	554	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	391,615	-----	40,204	46,988	304,623	-----
2915 RESIDUAL FUEL OIL-----	272,975	610	50,038	16,291	206,036	-----
2916 LUBRICATING OILS AND GREASES-----	3,676	4	66	3,390	214	-----
2918 ASPHALT, TAR, AND PITCHES-----	16,791	-----	42	7,087	9,662	-----
2921 LIQUEFIED GASES-----	1,007	287	31	512	177	-----
2951 ASPHALT BUILDING MATERIALS-----	2,061	-----	6	2,055	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	22,804	-----	-----	18,586	4,216	-----
3011 RUBBER AND MISC PLASTIC PROD-----	23,582	2,540	115	12,079	8,008	-----
3111 LEATHER AND LEATHER PRODUCTS-----	1,222	1,178	5	39	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	16,053	1,324	64	11,890	3,175	-----
3261 BUILDING CEMENT-----	72,234	-----	13	5,537	66,684	-----
3281 STRUCTURAL CLAY PRODUCTS-----	5,546	2,259	1	3,102	186	-----
3271 LIME-----	268	7	-----	261	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	1,323	631	9	860	23	-----
3291 MISC NONMETALLIC MINERAL PROD-----	72,240	1,495	85	55,748	14,912	-----
3312 SLAG-----	9,182	-----	-----	9,060	122	-----
3314 IRON AND STEEL PRIMARY FORMS-----	7,104	-----	-----	5,952	1,152	-----

PACIFIC OCEAN DIVISION

HONOLULU HARBOR, OAHU, HAWAII--CONTINUED

FREIGHT TRAFFIC, 1982--CONTINUED

(SHORT TONS)

35

COMMODITY	TOTAL	FOREIGN		DOMESTIC		
		IMPORTS	EXPORTS	COASTWISE		INTERNAL
				RECEIPTS	SHIPMENTS	RECEIPTS
3315 IRON, STEEL SHAPED, EXC SHEET-----	20,184	22,061	20	1,925	6,000	-----
3316 IRON AND STEEL PLATED, SHEETS-----	10,009	-----	65	14,733	3,231	-----
3317 IRON AND STEEL PIPE AND TUBE-----	11,400	2,613	64	4,567	3,050	-----
3318 FERROALLOYS-----	406	406	-----	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	4,755	561	1	3,750	443	-----
3321 NONFERROUS METALS, NEC-----	3,000	68	8	3,701	43	-----
3322 COPPER ALLOYS, UNWORKED-----	320	208	95	3	22	-----
3323 LEAD AND ZINC, UNWORKED-----	594	86	20	488	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	362	6	264	72	-----	-----
3411 FABRICATED METAL PRODUCTS-----	986,218	6,311	1,298	365,707	612,862	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	19,752	1,651	873	11,158	6,070	-----
3611 ELECTRICAL MACH AND EQUIP-----	14,071	2,899	195	7,996	2,981	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	425,205	29,041	456	169,502	226,246	-----
3721 AIRCRAFT AND PARTS-----	42	1	4	16	21	-----
3731 SHIPS AND BOATS-----	4,291	49	32	3,173	6,037	-----
3791 MISCELLANEOUS TRANSPORTATION EQUIPMENT-----	59,558	1	23	26,149	35,385	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	139	120	11	-----	-----	-----
3911 MISCELLANEOUS MANUFACTURED PRODUCTS-----	42,046	3,613	27	22,711	16,495	-----
4011 IRON AND STEEL SCRAP-----	35,103	-----	20,130	3,912	11,061	-----
4012 NONFERROUS METAL SCRAP-----	7,623	-----	7,623	-----	-----	-----
4022 TEXTILE WASTE, SCRAP, SNEEP-----	49	40	4	5	-----	-----
4028 PAPER WASTE AND SCRAP-----	22,212	-----	22,059	41	112	-----
4029 WASTE AND SCRAP, NEC-----	59	-----	-----	59	-----	-----
4112 COMMODITIES, NEC-----	753,671	845	31	440,830	311,957	-----
4119 EMPTY CONTAINERS-----	6,430	-----	-----	1,314	5,116	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	33	-----	33	-----	-----	-----

NAWILIWILI HARBOR, KAUAI, HAWAII

SECTION INCLUDED: PORT OF NAWILIWILI. CONTROLLING DEPTHS: 30.4 FEET IN THE OUTER CHANNEL; 36.2 FEET IN THE INNER CHANNEL; 33.9 FEET IN THE HARBOR BASIN. PROJECT DEPTHS: 60 FEET IN THE CHANNELS; 35 FEET IN THE HARBOR BASIN.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1973-----	495,448	-----	1978-----	765,877	6,384
1974-----	380,495	-----	1979-----	757,899	-----
1975-----	532,978	13,934	1980-----	765,212	-----
1976-----	665,900	40,574	1981-----	906,595	-----
1977-----	557,798	70,063	1982-----	868,153	-----

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		
		IMPORTS	EXPORTS	COASTWISE		INTERNAL
				RECEIPTS	SHIPMENTS	RECEIPTS
TOTAL-----	800,153	22,102	403,690	382,242	119	-----
0105 RICE-----	1,837	-----	1,337	-----	-----	-----
0122 HAY AND PODDER-----	30	-----	30	-----	-----	-----
0131 FRESH FRUIT-----	91	-----	81	10	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	6,019	-----	6,019	-----	-----	-----
0151 LIVE ANIMALS-----	3,977	-----	861	3,116	-----	-----
0261 FOREST PRODUCTS, NEC-----	281	-----	221	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	119	-----	-----	-----	119	-----
0912 SHELLFISH, EXCEPT PREPARED-----	104	-----	87	17	-----	-----
1691 NONFERROUS ORE, CONCENT, NEC-----	22	-----	22	-----	-----	-----
1894 GYPSUM, CRUDE AND PLASTER-----	65	-----	45	-----	-----	-----
1911 ORDNANCE AND ACCESSORIES-----	28	-----	28	-----	-----	-----
2011 MEAT, FRESH, CHILLED, FROZEN-----	1,362	-----	1,358	4	-----	-----
2015 DAIRY PRODUCTS, NEC-----	73	-----	73	-----	-----	-----
2021 VEGETABLE OILS, MARG, SHORT-----	41	-----	41	-----	-----	-----
2034 VEGETABLES AND PREP, NEC-----	6,281	-----	3,581	2,700	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	539	-----	64	475	-----	-----
2042 ANIMAL FEED-----	6,549	-----	6,536	13	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	11	-----	11	-----	-----	-----
2061 SUGAR-----	180,431	-----	22	180,609	-----	-----
2062 MOLASSES-----	53,569	-----	-----	53,569	-----	-----
2081 ALCOHOLIC BEVERAGES-----	9,121	-----	5,121	-----	-----	-----
2091 VEGETABLE OILS, MARG, SHORT-----	222	-----	222	-----	-----	-----
2094 GROCERIES-----	3,126	-----	3,123	3	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	17,205	-----	14,607	2,598	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	63	-----	43	-----	-----	-----
2413 FUEL WOOD, CHARCOAL, WABTES-----	160	-----	66	34	-----	-----
2414 TIMBER, POSTS, POLES, PILING-----	101	-----	99	2	-----	-----
2421 LUMBER-----	2,773	-----	2,751	22	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	283	-----	223	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	10,052	-----	3,006	7,046	-----	-----
2511 FURNITURE AND FIXTURES-----	2,495	-----	2,264	231	-----	-----
2631 PAPER AND PAPERBOARD-----	419	-----	393	26	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	2,310	-----	2,201	109	-----	-----
2711 PRINTED MATTER-----	11	-----	11	-----	-----	-----
2810 SODIUM HYDROXIDE-----	3,293	-----	3,293	-----	-----	-----
2816 SULPHURIC ACID-----	84	-----	84	-----	-----	-----

## Waterborne Commerce of the United States, 1982

NAWILIWILI HARBOR, KAUAI, HAWAII--CONTINUED

FREIGHT TRAFFIC, 1982--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN	DOMESTIC	
		IMPORTS	COASTWISE	INTERNAL
			RECEIPTS	SHIPMENTS
2010 BASIC CHEMICALS AND PROD, NEC-----	4,575	3,130	1,433	8
2020 PLASTIC MATERIALS-----	84	-----	84	-----
2030 DRUGS-----	18	-----	18	-----
2040 SOAP-----	583	-----	583	-----
2050 PAINTS-----	89	-----	89	-----
2070 NITROGENOUS CHEM FERTILIZERS-----	21,763	13,936	7,827	-----
2070 INSECTICIDES, DISINFECTANTS-----	157	-----	157	-----
2070 FERTILIZERS AND MATERIALS, NEC-----	10,320	-----	10,279	41
2090 MISCELLANEOUS CHEMICAL PROD-----	53	-----	53	-----
2910 GASOLINE-----	24,470	-----	24,470	-----
2912 JET FUEL-----	2,250	-----	2,250	-----
2915 DISTILLATE FUEL OIL-----	6,131	-----	6,131	-----
2916 RESIDUAL FUEL OIL-----	3,571	-----	3,571	-----
2916 LUBRICATING OILS AND GREASES-----	66	-----	66	-----
2918 ASPHALT, TAR, AND PITCHES-----	1,870	-----	1,883	27
2920 LIQUEFIED GASES-----	5,859	2,701	3,150	-----
2990 PETROLEUM AND COAL PROD, NEC-----	843	-----	843	-----
3010 RUBBER AND MISC PLASTIC PROD-----	2,806	-----	2,366	440
3210 GLASS AND GLASS PRODUCTS-----	530	-----	429	101
3260 BUILDING CEMENT-----	10,677	-----	10,677	-----
3290 MISC NONMETALLIC MINERAL PROD-----	6,124	-----	6,115	9
3310 SLAG-----	40	-----	40	-----
3314 IRON AND STEEL PRIMARY FORMS-----	62	-----	62	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	2,002	-----	1,666	134
3316 IRON AND STEEL PLATES, SHEETS-----	655	-----	655	-----
3357 IRON AND STEEL PIPE AND TUBE-----	3,510	2,331	1,168	19
3319 IRON AND STEEL PRODUCTS, NEC-----	23	-----	23	-----
3400 FABRICATED METAL PRODUCTS-----	205,793	-----	127,063	78,730
3510 MACHINERY, EXCEPT ELECTRICAL-----	1,324	-----	1,269	55
3600 ELECTRICAL MACH AND EQUIP-----	445	-----	330	115
3710 MOTOR VEHICLES, PARTS, EQUIP-----	79,950	-----	48,887	31,143
3720 AIRCRAFT AND PARTS-----	2	-----	2	-----
3790 MISC TRANSPORTATION EQUIPMENT-----	2,889	-----	2,087	802
3910 MISC MANUFACTURED PRODUCTS-----	20,137	-----	12,492	7,645
4010 IRON AND STEEL SCRAP-----	1,469	-----	1,254	215
4110 COMMODITIES, NEC-----	610	-----	610	618
4119 EMPTY CONTAINERS-----	77,625	-----	66,234	11,391
	95	-----	3	92

PACIFIC OCEAN DIVISION

37

CARRIER OR DATE SHIP		COMMODITY	TONS	TOTAL TONS MILES	PASSENGERS
PROJECT					
HANA HARBOUR, LANAI, HAWAII-----		0912 FRESH FISH, EXCEPT SHELLFISH-----	11		
KAILOHA HARBOUR, OAHU, HAWAII-----		NO COMMERCE REPORTED			
KALAKAUA HARBOUR, WOOGAHO, HAWAII-----		2421 LUMBER-----	44		
		2491 WOOD MANUFACTURES, NEC-----	34		
		2511 FURNITURE AND FIXTURES-----	16		
		3011 MACHINERY AND MISC PLASTIC PROD-----	1		
		3315 IRON, STEEL SHAPES, ETC SHEET-----	2		
		3411 FABRICATED METAL PRODUCTS-----	149		
		3711 MOTOR VEHICLES, PARTS, EQUIP-----	315		
		3791 MISC TRANSPORTATION EQUIPMENT-----	30		
		4112 COMMODITIES, NEC-----	764		
		TOTAL-----	1,412		
KAUAIKAHAWA HARBOUR, KOLOKAHO, HAWAII-----		0122 HAY AND FORAGE-----	4,112		
		0131 FRESH FRUITS-----	57,935		
		0151 LIVE ANIMALS-----	5,402		
		0911 FRESH FISH, EXCEPT SHELLFISH-----	9		
		0912 SHELLFISH, EXCEPT PREPARED-----	1		
		1911 DRUGS AND ACCESSORIES-----	1		
		2031 VEGETABLES AND PREP, NEC-----	1,601		
		2042 AGRICULTURAL FEEDS-----	951		
		2099 MISCELLANEOUS FARM PRODUCTS-----	3,726		
		2414 TIMBER, PINE, POLES, PILING-----	4		
		2421 LUMBER-----	746		
		2491 WOOD MANUFACTURES, NEC-----	13,190		
		2511 FURNITURE AND FIXTURES-----	732		
		2631 PAPER AND PAPERBOARD-----	2		
		2691 PULP AND PAPER PRODUCTS, NEC-----	116		
		2871 FERTILIZER AND MATERIALS, NEC-----	402		
		2991 MISCELLANEOUS CHEMICAL PROD-----	21		
		2991 GASOLINE-----	2,724		
		2914 DISTILLATE FUEL OIL-----	21,750		
		2915 RESIDUAL FUEL OIL-----	6,413		
		2916 ASPHALT, TAR, AND PITCHES-----	104		
		3011 MACHINERY AND MISC PLASTIC PROD-----	482		
		3211 GLASS AND GLASS PRODUCTS-----	67		
		3241 BUILDING CEMENT-----	1,584		
		3291 MISC NONMETALLIC MINERAL PROD-----	281		
		3315 IRON, STEEL SHAPES, ETC SHEET-----	123		
		3317 IRON AND STEEL PIPE AND TUBE-----	194		
		3411 FABRICATED METAL PRODUCTS-----	35,804		
		3711 MOTOR VEHICLES, PARTS, EQUIP-----	20,797		
		3731 SHIPS AND BOATS-----	550		
		3791 MISC TRANSPORTATION EQUIPMENT-----	8,249		
		4011 IRON AND STEEL SCRAP-----	374		
		4112 COMMODITIES, NEC-----	23,202		
		TOTAL-----	221,003		
PORT ALLEN HARBOUR, KAHATI, HAWAII-----		0911 FRESH FISH, EXCEPT SHELLFISH-----	20		
		0912 SHELLFISH, EXCEPT PREPARED-----	2		
		2991 GASOLINE-----	1,367		
		2912 JET FUEL-----	785		
		2914 DISTILLATE FUEL OIL-----	44,992		
		2915 RESIDUAL FUEL OIL-----	24,743		
		TOTAL-----	71,913		
WAKE ISLAND HARBOUR, WAKE ISLAND-----		NO COMMERCE REPORTED			
HELLS HARBOUR, MIDWAY ISLAND-----		NO COMMERCE REPORTED			
NONPROJECT					
KAUHALAPAII HARBOUR, LANAI, HAWAII-----		0151 FRESH FRUITS-----	212,783		
		0141 FRESH AND FROZEN VEGETABLES-----	93		
		0911 FRESH FISH, EXCEPT SHELLFISH-----	7		
		1442 SAND, GRAVEL, CRUSHED ROCK-----	754		
		2491 WOOD MANUFACTURES, NEC-----	36,219		
		2631 PAPER AND PAPERBOARD-----	176		
		2721 NITROGEN-CHLOR FERTILIZERS-----	44		
		2876 INSECTICIDES, DISINFECTANTS-----	200		
		2879 FERTILIZER AND MATERIALS, NEC-----	1,843		
		2991 MISCELLANEOUS CHEMICAL PROD-----	15		
		2991 GASOLINE-----	323		
		2914 DISTILLATE FUEL OIL-----	5,921		
		2916 ASPHALT, TAR, AND PITCHES-----	99		
		3411 FABRICATED METAL PRODUCTS-----	7		
		3511 MACHINERY, EXCEPT ELECTRICAL-----	453		
		3711 MOTOR VEHICLES, PARTS, EQUIP-----	607		
		3791 MISC TRANSPORTATION EQUIPMENT-----	7		
		4112 COMMODITIES, NEC-----	1,404		
		4119 EMPTY CONTAINERS-----	214		
		TOTAL-----	284,165		45,320

# WALLA WALLA, WA, DISTRICT

COLUMBIA RIVER AND TRIBUTARIES ABOVE MCNARY LOCK AND DAM TO KENNEWICK, WASH.

SECTION INCLUDED: COLUMBIA RIVER AND TRIBUTARIES, MCNARY LOCK AND DAM TO KENNEWICK, WASH. CONTROLLING DEPTHS 20 TO 92 FEET. PROJECT DEPTH 14 FEET.

### COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1973	2,747,359	1978	5,696,445
1974	2,715,716	1979	6,075,369
1975	3,103,555	1980	7,236,666
1976	4,807,270	1981	7,061,927
1977	4,506,615	1982	6,875,148

\* PASSENGERS--nil.

### FREIGHT TRAFFIC, 1982

#### DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	INTERNAL				
		INBOUND	OUTBOUND	DOWNSOUND	UPBOUND	THROUGH DOWNSOUND
TOTAL	6,875,148	735,742	1,131,159	8,360	495,653	6,580,234
0102 BARLEY AND RYE	194,913	-----	27,590	-----	-----	167,314
0103 CORN	603	-----	525	-----	-----	78
0107 MEAT	4,685,866	10,546	1,023,667	-----	-----	3,651,053
0111 SOYBEANS	154	-----	154	-----	-----	-----
0112 HAY AND FODDER	5,201	18	5,183	-----	-----	-----
0129 FIELD CROPS, NEC	813	-----	411	-----	-----	402
0161 ANIMAL AND PRODUCTS, NEC	6,556	346	1,075	102	6,979	-----
1402 SAND, GRAVEL, CRUSHED ROCK	951	-----	951	-----	-----	-----
1409 NONMETALLIC MINERALS, NEC	1,320	-----	-----	-----	1,320	-----
2015 ANIMAL BY-PRODUCTS, NEC	13,320	-----	12,851	-----	-----	477
2034 VEGETABLES AND PREP, NEC	1,108	-----	175	22	1,001	-----
2042 ANIMAL FEEDS	255	-----	255	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC	174	-----	174	-----	-----	-----
2062 MOLASSES	11,844	11,844	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGES	76	76	76	-----	-----	-----
2111 LOGS	21,287	-----	-----	-----	21,287	-----
2112 RAFTED LOGS	15,896	-----	15,896	-----	-----	-----
2113 FUEL WOOD, CHARCOAL, WASTES	3,072	-----	-----	-----	3,072	-----
2116 HOOF CHIPS, STAVES, HOLDINGS	21,324	-----	-----	-----	21,324	-----
2511 FURNITURE AND FIXTURES	5	5	5	-----	-----	-----
2619 PULP AND PAPER PRODUCTS, NEC	35,955	-----	92	576	34,987	-----
2621 BASIC CHEMICAL AND PROD, NEC	10,899	-----	10,899	-----	-----	-----
2621 PLASTIC MATERIALS	1,502	1,502	-----	-----	-----	-----
2701 NITROGENOUS CHEM FERTILIZERS	69,275	15,265	28,344	7,251	4,114	16,301
2901 MISCELLANEOUS CHEMICAL PROD	69	-----	-----	69	-----	-----
2911 GASOLINE	544,964	293,600	2,611	1,309	292,461	24,983
2912 JET FUEL	16,049	2,281	-----	-----	16,700	-----
2914 DISTILLATE FUEL OIL	925,000	350,234	-----	-----	182,715	4,060
2915 RESIDUAL FUEL OIL	70,347	50,075	-----	-----	80,272	-----
2916 ASPHALT, TAR, AND PITCHES	4,386	449	-----	-----	3,917	-----
3011 RUBBER AND MISC PLASTIC PROD	107	107	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS	34	34	-----	-----	-----	-----
3271 LIME	1,029	1,029	-----	-----	-----	-----
3611 FABRICATED METAL PRODUCTS	46	46	-----	-----	-----	-----
3811 MACHINERY, EXCEPT ELECTRICAL	993	353	110	-----	130	-----
4009 WASTE AND SCRAP, NEC	792,000	-----	-----	-----	792,000	-----
4119 EMPTY CONTAINERS	9,474	1,950	387	6,367	6,367	700
TOTAL TON-MILES,	287,176,609.					

### SNAKE RIVER, OREG., WASH., AND IDAHO

SECTION INCLUDED: MOUTH OF SNAKE RIVER TO JOHNSON BAR LANDING, CONTROLLING DEPTHS 14 FEET FROM MOUTH TO ICE HARBOR LOCK APPROACH CHANNEL; 14 FEET IN ICE HARBOR APPROACH CHANNEL; 14 FEET WITHIN ICE HARBOR POOL; 14 FEET IN LOWER MONUMENTAL APPROACH CHANNEL; 14 FEET WITHIN LOWER MONUMENTAL POOL; 14 FEET IN LITTLE GOOSE APPROACH CHANNEL; 14 FEET WITHIN LITTLE GOOSE POOL; 14 FEET IN LOWER GRANITE APPROACH CHANNEL; 14 FEET WITHIN LOWER GRANITE POOL; ABOUT 3.0 FEET FROM HEAD OF LOWER GRANITE POOL TO JOHNSON BAR LANDING. PROJECT DEPTH 14 FEET FROM MOUTH TO THE ICE HARBOR APPROACH CHANNEL; 14 FEET IN ICE HARBOR CHANNEL; 14 FEET WITHIN ICE HARBOR POOL; 14 FEET IN LOWER MONUMENTAL APPROACH CHANNEL; 14 FEET WITHIN LOWER MONUMENTAL POOL; 14 FEET IN LITTLE GOOSE APPROACH CHANNEL; 14 FEET IN LOWER GRANITE APPROACH CHANNEL; 14 FEET IN LOWER GRANITE CHANNEL; 14 FEET WITHIN LITTLE GOOSE POOL; 14 FEET IN LOWER GRANITE POOL; 2 FEET TO JOHNSON BAR LANDING.

### COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1973	1,760,946	4,436	1978	3,852,302	-----
1974	1,729,725	3,828	1979	4,356,735	-----
1975	2,010,721	2,904	1980	5,063,613	665
1976	2,694,606	606	1981	5,335,162	1,779
1977	2,911,240	-----	1982	5,065,326	121

**WALLA WALLA, WA, DISTRICT**  
 SNAKE RIVER, OREG., WASH., AND IDAHO--CONTINUED

39

FREIGHT TRAFFIC, 1962

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	INTERNAL			
		INBOUND	OUTBOUND	UPBOUND	DOWNBOUND
TOTAL-----	\$,065,380	488,313	3,819,153	70	757,792
0102 BARLEY AND RYE-----	167,314	-----	126,085	-----	40,629
0103 CORN-----	70	-----	70	-----	-----
0107 WHEAT-----	3,455,930	-----	2,762,767	-----	692,767
0120 FIELD CROPS, NEC-----	402	-----	402	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	5,061	182	4,979	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	1,320	-----	1,320	-----	-----
1490 NONMETALLIC MINERALS, NEC-----	166	-----	166	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC-----	677	-----	677	-----	-----
2034 VEGETABLES AND PREP, NEC-----	1,023	22	1,001	-----	-----
2411 LOGS-----	21,227	-----	21,227	-----	-----
2613 FUEL WOOD, CHARCOAL, WASTES-----	3,072	-----	-----	-----	3,072
2616 WOOD CHIPS, STAVES, MULCHING-----	21,320	-----	-----	-----	21,320
2691 PULP AND PAPER PRODUCTS, NEC-----	35,463	976	34,987	-----	-----
2814 BASIC CHEMICALS AND PROD, NEC-----	10,099	10,099	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	40,046	25,745	14,301	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	69	69	-----	-----	-----
2911 GASOLINE-----	252,862	222,461	29,581	-----	-----
2912 JET FUEL-----	14,708	14,708	-----	-----	-----
2916 DISTILLATE FUEL OIL-----	210,661	182,712	28,160	-----	-----
2918 RESIDUAL FUEL OIL-----	20,272	20,272	-----	-----	-----
2919 ASPHALT, TAR, AND PITCHES-----	3,917	3,917	-----	-----	-----
3811 MACHINERY, EXCEPT ELECTRICAL-----	570	174	326	70	-----
4029 WASTE AND SCRAP, NEC-----	792,000	-----	792,000	70	-----
4119 EMPTY CONTAINERS-----	7,443	6,653	700	-----	-----
TOTAL TON-MILES, 362,319,792.					

## PORTLAND, OR, DISTRICT

TOTAL WATERBORNE COMMERCE, COLUMBIA RIVER BASIN, OREG., WASH., AND IDAHO

CALENDAR YEAR 1982

(SHORT TONS)

LOCALITY	FOREIGN		DOMESTIC			LOCAL	TOTAL	PERCENT	THROUGH TRAFFIC				
	IMPORTS	EXPORTS	COASTWISE		INTERNAL RECEIPTS AND SHIPMENTS								
			RECEIPTS	SHIPMENTS									
SNAKE RIVER, OREG., WASH., AND IDAHO--COLUMBIA RIVER, WENATCHEE TO KETTLE FALLS, WASH.	-----	-----	-----	-----	4,307,466	70	4,307,536	7.65	157,792				
COLUMBIA RIVER AND TRIBUTARIES ABOVE MCNARY LOCK AND DAM TO KENNEWICK, WASH	-----	-----	-----	-----	130	42,375	42,505	.80	-----				
COLUMBIA RIVER AND TRIBUTARIES ABOVE THE DALLES DAM, WASH., AND OREG., TO MCNARY LOCK AND DAM, OREG., AND WASH.	-----	-----	-----	-----	1,066,901	8,960	1,075,461	3.33	4,999,687				
COLUMBIA RIVER BETWEEN VANCOUVER, WASH., AND THE DALLES, OREG.	-----	-----	-----	4,400	1,639,006	564,203	2,200,489	3.92	6,957,992				
WILLAMETTE RIVER ABOVE PORTLAND AND YAMhill RIVER, OREG.	12,655	-----	-----	-----	1,182,960	1,667,489	2,063,113	8.08	-----				
OREGON SLOUGH (NORTH PORTLAND HARBOR), OREG.	-----	-----	31,236	91,892	546,070	-----	669,198	1.19	-----				
COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG.	3,030,144	18,648,610	3,739,300	410,032	10,761,676	4,073,027	40,672,307	78.17	751,068				
MULTNOMAH CHANNEL, OREG.	-----	-----	-----	-----	1,530,218	62,945	1,681,163	2.88	-----				
LAKE RIVER, WASH.	-----	-----	-----	-----	104	4,120	4,226	.01	-----				
LEHIGH RIVER, WASH.	-----	-----	-----	-----	25,112	-----	25,112	.04	-----				
COLVILLE RIVER, OREG.	-----	-----	-----	-----	700	700	700	.01	-----				
CLATSOPIANA RIVER, OREG.	-----	-----	-----	-----	-----	-----	-----	-----	-----				
WESTPORT SLOUGH, OREG.	-----	-----	-----	-----	14,298	-----	14,298	.03	-----				
ELKOMON SLOUGH, WASH.	-----	-----	-----	-----	35,524	-----	35,524	.06	-----				
SKAMOKAWA (STEAMBOAT) SLOUGH, WASH.	-----	-----	-----	-----	1,012	-----	1,012	.01	-----				
SKAMOKAWA CREEK, WASH.	-----	-----	-----	-----	-----	-----	-----	-----	-----				
GRAY RIVER, WASH.	-----	-----	-----	-----	38	-----	38	.01	-----				
DEEP RIVER, WASH.	-----	-----	-----	-----	182,070	-----	182,670	.32	-----				
YOUNGS BAY AND YOUNGS RIVER, OREG.	-----	-----	-----	-----	266,667	120,980	389,667	.69	-----				
SKIPANON CHANNEL, OREG.	-----	-----	-----	-----	46,716	-----	46,716	.08	-----				
CHINOOK CHANNEL, WASH.	-----	-----	-----	-----	2,661	-----	2,661	.01	-----				
COLUMBIA RIVER AT BAKERS BAY, WASH.	-----	-----	-----	-----	5,244	-----	5,244	.01	-----				
TOTAL (UNADJUSTED)	3,050,799	18,648,610	3,770,536	507,124	43,811,889	6,545,277	56,334,235	-----	19,868,629				
PERCENT (UNADJUSTED)	5.42	33.10	6.69	.90	42.27	11.62	-----	100.00	-----				
NET VOLUME OF TONNAGE FOR THE BASIN	3,050,799	18,648,610	3,770,536	507,124	11,908,914	6,545,277	44,431,260	-----	-----				
PERCENT (ADJUSTED)	6.87	41.97	8.49	1.14	26.80	14.73	-----	100.00	-----				

\* THROUGH TRAFFIC NOT CREDITED AS SUCH TO TOTAL TONNAGE FOR BASIN, BUT CREDITED TO PROJECTS OR RIVERS WHERE SHIPPED OR RECEIVED.

\*\* ADJUSTED TO NET VOLUME BY EXCLUDING ONE-HALF OF INTERNAL TRAFFIC MOVED BETWEEN THE SEPARATE WATERWAYS OF THE BASIN.

## COLUMBIA RIVER ENTRANCE, OREG. AND WASH.

SECTION INCLUDED: COLUMBIA RIVER AT MOUTH, OREG. AND WASH. CONTROLLING DEPTHS: 67 FEET LEFT OUTSIDE, 45 FEET LEFT INSIDE, 43 FEET RIGHT INSIDE, AND 40 FEET RIGHT OUTSIDE, AT MEAN LOW WATER. AT CLATSOP SPIT, 44 FEET FOR LEFT QUARTER, 45 FEET CENTER OF CHANNEL, AND 42 FEET RIGHT QUARTER. PROJECT DEPTHS: 68 FEET OVER BAR.

## COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	FOREIGN THROUGH		DOMESTIC THROUGH		TOTAL	YEAR	FOREIGN THROUGH		DOMESTIC THROUGH		TOTAL
	UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND			UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND	
1973-----	3,241,298	14,070,204	5,188,877	1,076,410	23,586,797	1978-----	6,323,696	16,510,367	5,122,788	909,658	26,866,509
1974-----	4,240,770	13,611,300	3,823,390	961,493	22,620,953	1979-----	4,755,280	17,893,640	6,006,252	1,019,061	29,676,213
1975-----	3,891,810	13,068,299	3,773,005	844,565	21,507,759	1980-----	4,052,226	19,667,507	5,224,056	862,464	30,206,253
1976-----	3,768,505	14,600,097	3,970,882	1,772,004	24,126,038	1981-----	3,021,723	19,963,821	4,369,793	467,875	28,603,212
1977-----	4,045,315	12,821,303	4,213,070	613,554	21,893,330	1982-----	3,050,799	18,648,610	3,770,535	507,124	25,977,136

COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY  
(CONSOLIDATED REPORT)

SECTION INCLUDED: MOUTH TO INTERNATIONAL BOUNDARY, A DISTANCE OF 785 MILES. CONTROLLING DEPTHS: 38 FEET OR BETTER BETWEEN MOUTH OF COLUMBIA RIVER AND MOUTH OF WILLAMETTE RIVER; 30 FEET TO LOWER TURNING BAY, VANCOUVER, WASH.; OTHER CHANNEL DEPTHS RANGE FROM 15 TO 4 FEET. PROJECT DEPTHS: 68 FEET ACROSS ENTRANCE BARS; 60 FEET FROM MOUTH OF COLUMBIA RIVER TO MOUTH OF WILLAMETTE RIVER; 60 FEET FROM MOUTH OF WILLAMETTE RIVER TO VANCOUVER; OTHER PROJECT DEPTHS RANGE FROM 27 TO 7 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1973-----	31,930,307	2,870,200	34,413,507	270	1978-----	37,072,172	5,052,020	42,724,001	91,001
1974-----	31,093,812	6,055,230	39,149,042	630	1979-----	41,169,227	5,669,823	47,039,070	117,301
1975-----	30,315,309	7,806,160	38,121,549	10,416	1980-----	42,926,434	6,250,550	49,176,986	81,383
1976-----	33,866,926	8,096,057	41,960,981	42,202	1981-----	46,995,167	4,370,819	51,365,986	81,647
1977-----	31,627,507	6,914,260	38,541,767	62,604	1982-----	37,296,050	4,360,420	41,665,287	60,051

**PORTLAND, OR, DISTRICT**  
 COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY  
 (CONSOLIDATED REPORT)--CONTINUED

41

FREIGHT TRAFFIC, 1962

OCEANGOING

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC COASTWISE			
		IMPORTS	EXPORTS	THROUGH		RECEIPTS	SHIPMENTS	THROUGH	
				UPBOUND	DOWNBOUND			UPBOUND	DOWNBOUND
TOTAL	25,977,069	1,188,798	7,448,692	1,862,001	11,199,918	334,753	129,074	3,435,783	378,050
0101 COTTON, RAN	369	-----	-----	-----	369	-----	-----	-----	-----
0102 BARLEY AND RYE	937,909	-----	180,403	-----	757,426	-----	-----	-----	-----
0103 CORN	177,713	-----	175,906	-----	1,807	-----	-----	-----	-----
0104 OATS	326	-----	-----	-----	326	-----	-----	-----	-----
0106 SORGHUM GRAINS	93,451	-----	46,225	-----	47,206	-----	-----	-----	-----
0107 MEAT	10,054,573	-----	2,065,211	-----	8,169,262	-----	20,100	-----	-----
0111 SOYBEANS	60,430	-----	6,329	-----	54,101	-----	-----	-----	-----
0119 OILSEEDS, NEC	68	-----	-----	15	53	-----	-----	-----	-----
0121 TOBACCO, LEAF	787	-----	-----	787	-----	-----	-----	-----	-----
0129 FIELD CROPS, NEC	16,127	-----	1,302	109	14,716	-----	-----	-----	-----
0131 FRESH FRUITS	3,658	-----	-----	-----	1,862	-----	-----	739	1,057
0132 BANANAS AND PLANTAINS	11	-----	-----	11	-----	-----	-----	-----	-----
0133 COFFEE	1,127	-----	-----	1,127	-----	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES	61,391	-----	14,283	182	36,815	-----	-----	10,111	-----
0151 LIVE ANIMALS	266	-----	-----	266	2,019	-----	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC	2,283	-----	-----	-----	266	-----	-----	-----	-----
0171 MISCELLANEOUS FARM PRODUCTS	235	-----	-----	150	26	-----	-----	59	-----
0201 CRUDE RUBBER AND ALLIED GUMS	2,365	-----	-----	2,362	3	-----	-----	-----	-----
0206 FOREST PRODUCTS, NEC	678	-----	11	68	78	-----	-----	19	502
0209 FRESH FISH, EXCEPT SHELLFISH	4,139	-----	43	119	3,977	-----	-----	-----	-----
0212 SHELLFISH, EXCEPT PREPARED	543	-----	-----	158	236	-----	-----	129	-----
1021 COPPER ORE AND CONCENTRATES	63,269	-----	63,269	-----	-----	-----	-----	-----	-----
1051 ALUMINUM ORES, CONCENTRATES	1,179,916	738,760	-----	441,143	13	-----	-----	-----	-----
1061 MANGANESE ORES, CONCENTRATES	57	-----	-----	-----	57	-----	-----	-----	-----
1091 NONFERROUS ORE, CONCENT., NEC	10,675	8,406	-----	9,972	278	-----	-----	19	-----
1121 COAL AND LIGNITE	4,504	-----	-----	4,496	10	-----	-----	-----	-----
1311 CRUDE PETROLEUM	249,738	20,878	-----	17,165	-----	-----	-----	211,695	-----
1411 LIMESTONE	49,985	-----	-----	49,962	23	-----	-----	-----	-----
1412 BUILDING STONE, UNWORKED	153	-----	-----	-----	153	-----	-----	-----	-----
1402 SAND, GRAVEL, CRUSHED ROCK	140,665	-----	136,860	-----	-----	-----	-----	3,805	-----
1401 CLAY	229,846	111	21,769	189	207,800	-----	-----	67	-----
1401 SALT	410,176	239,625	-----	170,504	-----	-----	-----	-----	-----
1499 NONMETALLIC MINERALS, NEC	33,704	-----	60	1,244	23,150	-----	-----	9,282	-----
1911 ORDNANCE AND ACCESSORIES	46	-----	5	-----	41	-----	-----	-----	-----
2011 MEAT, FRESH, CHILLED, FROZEN	5,764	-----	-----	26	5,665	-----	-----	4	69
2012 MEAT AND PRODUCTS, NEC	51	-----	-----	-----	51	-----	-----	-----	-----
2014 TALLOW, ANIMAL FAT, AND OILS	4,493	-----	-----	-----	4,493	-----	-----	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC	37,737	-----	-----	28	37,715	-----	-----	-----	-----
2021 DAIRY PRODUCTS, NEC	494	-----	-----	353	-----	-----	-----	141	-----
2022 DRIED MILK AND CREAM	3,252	-----	-----	1	3,251	-----	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED	3,293	13	22	1,770	1,468	-----	-----	-----	-----
2034 VEGETABLES AND PREP, NEC	57,923	-----	27	4,101	51,931	-----	426	1,356	-----
2039 PREP FRUIT AND VEG JUICE, NEC	21,779	279	41	6,496	6,256	-----	8,974	135	-----
2041 WHEAT FLOUR AND SEMOLINA	10,390	-----	3,656	-----	6,734	-----	-----	-----	-----
2002 ANIMAL FEEDS	127,414	-----	98,281	-----	17,546	-----	-----	11,627	-----
2049 GRAIN MILL PRODUCTS, NEC	6,290	-----	-----	66	6,224	-----	-----	-----	-----
2061 SUGAR	11,009	-----	11,009	-----	-----	-----	-----	-----	-----
2062 MOLASSES	35,321	-----	-----	4,885	-----	-----	30,436	-----	-----
2081 ALCOHOLIC BEVERAGES	10,259	39	-----	4,402	1,650	-----	-----	4,148	-----
2091 VEGETABLE OILS, MAR, SHORT	71,050	-----	-----	69,520	445	-----	-----	1,085	-----
2094 GROCERIES	200	-----	-----	-----	-----	-----	2	206	-----
2099 MISCELLANEOUS FOOD PRODUCTS	23,471	36	211	548	21,504	-----	-----	14	1,150
2111 TOBACCO MANUFACTURES	5	-----	-----	5	-----	-----	-----	-----	-----
2511 APPAREL	2,203	207	1	1,895	30	-----	-----	8	-----
2611 LOGS	3,529,774	-----	3,245,947	-----	279,691	-----	-----	136	-----
2613 FUEL WOOD, CHARCOAL, WASTE	1,577	-----	-----	-----	236	-----	9	1,332	-----
2614 TIMBER, POSTS, POLES, PILING	5,289	-----	3,884	-----	1,445	-----	-----	-----	-----
2616 WOOD CHIPS, STAVES, HOLDINGS	980,003	-----	244,762	1,660	733,581	-----	-----	55,136	-----
2621 LUMBER	500,139	8,008	190,172	1,896	179,115	2,033	63,435	324	12,806
2691 WOOD MANUFACTURES, NEC	10,858	1,972	1,103	2,030	5,284	-----	-----	6,469	-----
2511 FURNITURE AND FIXTURES	2,192	70	-----	1,004	279	-----	207	623	-----
2611 PULP	57,274	2,293	50,255	67	4,659	-----	-----	-----	552
2621 STANDARD NEWSPRINT PAPER	552	-----	-----	-----	-----	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD	464,398	810	300,277	21,758	135,140	-----	-----	6,413	-----
2691 PULP AND PAPER PRODUCTS, NEC	16,945	-----	376	29	66	-----	-----	10,476	-----
2711 PRINTED MATTER	339	14	3	258	64	-----	-----	-----	-----
2610 SODIUM HYDROXIDE	67,700	-----	-----	-----	-----	26,200	12,000	29,500	-----
2011 CRUDE TAR, OIL, GAS PRODUCTS	9,897	-----	-----	-----	1	-----	9,897	-----	280
2012 DYES, PIGMENT, TANNING MATS	241	-----	-----	-----	-----	-----	-----	-----	-----
2016 RADIOACTIVE MATERIALS, WASTES	6	-----	-----	6	-----	-----	-----	-----	-----
2019 BASIC CHEMICALS AND PROD, NEC	465,469	30,782	34,463	17,939	53,745	50,256	1,200	267,895	9,191
2021 PLASTIC MATERIALS	1,825	-----	-----	546	870	-----	-----	-----	409
2022 SYNTHETIC RUBBER	3	-----	-----	603	18	-----	-----	-----	-----
2031 DRUGS	101	23	-----	16	62	-----	-----	-----	-----
2041 SOAP	224	-----	-----	162	62	-----	-----	-----	-----
2051 PAINTS	500	1	-----	279	220	-----	-----	-----	-----
2061 GUM AND WOOD CHEMICALS	20	-----	-----	19	1	-----	-----	-----	-----
2071 NITROGENOUS CHEM FERTILIZERS	236,252	12,500	-----	7,496	-----	-----	16,317	136,524	63,415
2073 PHOSPHATIC CHEM FERTILIZERS	60	-----	-----	-----	60	-----	-----	-----	66
2076 INSECTICIDES, DISINFECTANTS	373	-----	-----	202	105	-----	-----	-----	-----
2079 FERTILIZER AND MATERIALS, NEC	566	-----	566	-----	-----	-----	-----	-----	-----
2091 MISCELLANEOUS CHEMICAL PROD	25,149	81	9	207	458	-----	-----	12,488	11,906
2091 GASOLINE	592,872	44,631	-----	93,860	41	-----	-----	454,340	-----
2012 JET FUEL	56,852	-----	-----	-----	-----	-----	-----	56,832	-----
2013 KEROSENE	854	-----	-----	-----	-----	-----	-----	854	-----
2014 DISTILLATE FUEL OIL	740,470	-----	-----	5,026	22,735	7,376	-----	637,980	67,353

## Waterborne Commerce of the United States, 1982

COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY  
(CONSOLIDATED REPORT)--CONTINUED

## FREIGHT TRAFFIC, 1982--CONTINUED

## OCEangoing--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN			DOMESTIC		
		IMPORTS	EXPORTS	THROUGH		COASTWISE	
				UPBOUND	DOWNBOUND	RECEIPTS	SHIPMENTS
2915 RESIDUAL FUEL OIL-----	1,765,015	-----	-----	33,532	-----	267,177	-----
2916 LUBRICATING OILS AND GREASES-----	62,545	-----	-----	-----	155	-----	-----
2917 NAPHTHA, PETROLEUM SOLVENTS-----	9,956	-----	-----	-----	-----	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	113,449	-----	-----	34,926	2	7,893	-----
2920 COKE, PETROLEUM COKE-----	78,253	-----	-----	41,137	37,116	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	266	-----	-----	-----	288	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	42	-----	-----	42	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	9,366	12	8	7,942	293	-----	7
3111 LEATHER AND LEATHER PRODUCTS-----	6,506	95	3	6,187	261	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	973	-----	-----	840	118	-----	15
3241 BUILDING CEMENT-----	5,701	-----	-----	-----	74	-----	5,408
3251 STRUCTURAL CLAY PRODUCTS-----	437	-----	-----	295	13	-----	219
3281 CUT STONE AND STONE PRODUCTS-----	73	-----	-----	73	-----	-----	129
3291 MISC NONMETALLIC MINERAL PROD-----	9,001	3	7	1,990	771	-----	3,051
3312 SLAG-----	631	-----	-----	-----	-----	-----	631
3314 IRON AND STEEL PRIMARY FORMS-----	153	-----	-----	13	6	-----	134
3315 IRON, STEEL SHAPES, EXC SHEET-----	209,173	21,212	1	187,358	25	-----	577
3316 IRON AND STEEL PLATES, SHEETS-----	48,725	3,345	3	43,776	17	-----	1,504
3317 IRON AND STEEL PIPE AND TUBE-----	70,570	19,039	173	50,970	212	-----	106
3318 FERROALLOYS-----	4,976	3,417	-----	1,397	162	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	2,480	-----	-----	2,390	90	-----	-----
3321 NONFERROUS METALS, NEC-----	622	-----	2	699	50	-----	71
3322 COPPER ALLOYS, UNWORKED-----	493	-----	-----	384	109	-----	-----
3323 LEAD AND ZINC, UNWORKED-----	4,188	-----	190	622	3,376	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	70,258	-----	60,905	62	9,287	-----	-----
3411 FABRICATED METAL PRODUCTS-----	36,588	631	2,171	26,100	1,743	-----	5,939
3511 MACHINERY, EXCEPT ELECTRICAL-----	29,957	21	1,408	21,262	5,429	1,500	72
3611 ELECTRICAL MACH AND EQUIP-----	8,381	416	55	5,624	876	-----	1,410
3711 MOTOR VEHICLES, PARTS, EQUIP-----	302,433	6,554	121	291,919	1,689	-----	612
3721 AIRCRAFT AND PARTS-----	3	-----	-----	3	-----	-----	-----
3731 SHIPS AND BOATS-----	97	1	22	69	2	-----	3
3791 MISC TRANSPORTATION EQUIPMENT-----	384	-----	51	195	93	-----	2
3811 INSTN, TIME, PHOTO, OPT GOODS-----	1,019	3	6	900	110	-----	43
3911 MISC MANUFACTURED PRODUCTS-----	2,650	125	14	899	842	-----	58
4011 IRON AND STEEL SCRAP-----	170,435	10	-----	181	170,038	-----	210
4012 NONFERROUS METAL SCRAP-----	21,864	-----	6,225	-----	15,639	-----	-----
4022 TEXTILE WASTE, SCRAP, SWEEP-----	71	-----	18	40	13	-----	-----
4024 PAPER WASTE AND SCRAPS-----	13,480	-----	480	-----	13,000	-----	-----
4112 COMMODITIES, NEC-----	10,690	1,027	-----	541	61	-----	371
4119 EMPTY CONTAINERS-----	125	-----	-----	-----	-----	-----	125
9999 DEPARTMENT OF DEFENSE AND SCI-----	410	-----	-----	410	-----	-----	-----
TON-MILES, OCEangoing, 2,481,756,125.							

## INTERNAL

(SHORT TONS)

COMMODITY	TOTAL	INBOUND		OUTBOUND		UPBOUND	DOWNBOUND	THROUGH	
		UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND			UPBOUND	DOWNBOUND
TOTAL-----	15,688,210	4,635,460	2,412,759	1,862,842	3,135,454	832,534	2,809,169	-----	-----
0102 BARLEY AND RYE-----	220,986	48,448	33,343	-----	20,329	-----	-----	116,866	-----
0103 CORN-----	2,580	-----	465	-----	2,037	-----	-----	70	-----
0107 MEAT-----	5,224,040	1,192,917	934,487	10,809	809,036	-----	-----	2,275,991	-----
0111 SOYBEANS-----	154	-----	154	-----	-----	-----	-----	-----	-----
0122 HAY AND FORAGE-----	5,201	18	3,013	-----	2,170	-----	-----	402	-----
0124 FIELD CROPS, NEC-----	813	-----	411	-----	-----	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	6,504	437	1,075	-----	-----	102	4,890	-----	-----
0151 LIVE ANIMALS-----	71	-----	951	-----	71	-----	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	951	-----	951	-----	-----	-----	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	24,436	-----	2,332	1,922	16,036	4,546	-----	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	8,270	67	-----	-----	6,905	1,326	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	1,192,030	492,337	20,010	-----	211,303	253,348	215,836	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	160	-----	-----	-----	-----	-----	-----	166	-----
2015 ANIMAL BY-PRODUCTS, NEC-----	13,328	-----	12,209	-----	642	-----	-----	477	-----
2034 VEGETABLES AND PREP, NEC-----	1,198	156	175	-----	-----	22	845	-----	-----
2042 ANIMAL FEEDS-----	255	-----	255	-----	-----	-----	-----	-----	-----
2048 GRAIN MILL PRODUCTS, NEC-----	170	-----	174	-----	-----	-----	-----	-----	-----
2062 MOLASSES-----	39,142	11,080	-----	-----	-----	-----	-----	27,298	-----
2081 ALCOHOLIC BEVERAGES-----	76	76	-----	-----	-----	-----	-----	-----	-----
2411 LOGS-----	29,224	17,315	3,265	728	86	1,109	6,730	-----	-----
2412 RAFTED LOGS-----	4,368,429	514,343	461,615	1,718,360	1,543,076	120,108	10,927	-----	-----
2413 FUEL WOOD, CHARCOAL, WASTES-----	14,751	6,591	100	-----	8,060	-----	-----	-----	-----
2414 TIMBER, POSTS, POLES, PILING-----	558	258	268	-----	-----	36	-----	-----	-----
2416 WOOD CHIPS, STAVES, MOLDINGS-----	507,284	73,013	-----	1,400	432,831	-----	-----	-----	-----
2421 LUMBER-----	13	13	13	-----	-----	-----	-----	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	11,760	-----	11,760	-----	-----	-----	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	5	5	5	-----	-----	-----	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	249,151	-----	249,151	-----	-----	-----	-----	-----	-----
2692 BASIC CHEMICALS AND PROD, NEC-----	633,126	4,648	349,504	14,920	4,367	25,802	34,203	-----	-----
2693 BASIC CHEMICALS AND PROD, NEC-----	15,197	1,794	10,899	2,502	-----	-----	-----	-----	-----
2694 PLASTIC MATERIALS-----	1,502	-----	-----	1,502	-----	-----	-----	-----	-----
2695 NITROGENOUS CHEM FERTILIZER-----	76,460	13,040	22,443	19,235	13,152	4,118	3,476	-----	-----
2901 MISCELLANEOUS CHEMICAL PROD-----	60,597	327,480	37,366	-----	20,444	198,322	24,983	-----	-----
2912 JET FUEL-----	16,949	2,241	-----	-----	-----	16,708	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	633,555	394,965	55,294	9,667	32,167	137,402	4,060	-----	-----

**PORLAND, OR, DISTRICT**  
 COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY  
 (CONSOLIDATED REPORT)--CONTINUED

43

FREIGHT TRAFFIC, 1982--CONTINUED

INTERNAL--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	INBOUND	OUTBOUND	UPBOUND	DOWNBOUND	UPBOUND	THROUGH DOWNBOUND
2015 RESIDUAL FUEL OIL-----	941,615	733,376	1,460	64,699	1,960	61,100	78,951
2016 ASPHALT, TAR, AND PITCHES-----	4,386	869	-----	-----	-----	3,917	-----
3011 RUBBER AND MISC PLASTIC PROD-----	107	107	-----	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	34	34	-----	-----	-----	-----	-----
3271 LIME-----	1,029	1,029	-----	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	1,675	1,675	-----	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, ETC SHEET-----	1,515	1,515	-----	-----	-----	-----	-----
3611 FABRICATED METAL PRODUCTS-----	46	46	-----	-----	-----	-----	-----
3911 MACHINERY, EXCEPT ELECTRICAL-----	638	456	174	8	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	819,632	792,000	-----	17,850	9,982	-----	-----
4119 EMPTY CONTAINERS-----	9,494	1,950	387	-----	-----	6,367	790
TON-MILES, INTERNAL.	1,626,977,626.						
TONS, ALL TRAFFIC,	41,685,287.						
TON-MILES, ALL TRAFFIC,	4,308,733,751.						

TON-MILES, INTERNAL.

TONS, ALL TRAFFIC.

TON-MILES, ALL TRAFFIC.

COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW  
 VANCOUVER, WASH., AND PORTLAND, OREG.

SECTION INCLUDED: COLUMBIA RIVER FROM MOUTH TO THE MOUTH OF WILLAMETTE RIVER; WILLAMETTE RIVER FROM MOUTH TO BROADWAY BRIDGE AT PORTLAND, OREG.; A DISTANCE OF 113 MILES; COLUMBIA RIVER FROM MOUTH OF WILLAMETTE RIVER TO INTERSTATE BRIDGE, VANCOUVER, WASH., A DISTANCE OF 5 MILES. CONTROLLING DEPTHS: MOUTH OF COLUMBIA RIVER TO MOUTH OF WILLAMETTE AND UP THE WILLAMETTE TO BROADWAY BRIDGE IN PORTLAND, 38 FEET; IN THE REACH OF COLUMBIA RIVER FROM THE MOUTH OF WILLAMETTE RIVER TO THE LOWER TURNING BAHN AT VANCOUVER, WASH., 38 FEET. PROJECT DEPTHS: 40 FEET IN MAIN CHANNEL FROM MOUTH OF COLUMBIA RIVER TO BROADWAY BRIDGE AT PORTLAND, OREG.; 40 FEET IN COLUMBIA RIVER FROM MOUTH OF WILLAMETTE RIVER TO RAILROAD BRIDGE, VANCOUVER, WASH.; 35 FEET FROM RAILROAD BRIDGE TO INTERSTATE BRIDGE, VANCOUVER, WASH.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1973-----	32,650,937	1,676,984	34,327,921	255	1978-----	39,962,712	5,091,549	45,054,261	48,878
1974-----	32,675,400	7,482,190	40,157,598	630	1979-----	42,124,171	5,266,395	47,388,566	69,075
1975-----	31,680,526	6,926,414	38,606,940	11,159	1980-----	43,251,649	5,674,866	48,946,515	49,531
1976-----	35,043,139	7,351,983	42,395,122	26,648	1981-----	41,779,925	4,136,724	45,916,647	41,246
1977-----	33,426,301	6,063,007	39,489,308	36,810	1982-----	37,515,291	3,908,164	41,423,455	24,394

FREIGHT TRAFFIC, 1982

OCEANGOING

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC COASTWISE			
		IMPORTS	EXPORTS	THROUGH UPBOUND	RECEIPTS	SHIPMENTS	THROUGH UPBOUND
							DOWNBOUND
TOTAL-----	25,977,069	3,038,144	16,648,610	12,655	3,739,300	410,832	31,236
0101 COTTON, RAN-----	369	-----	369	-----	-----	-----	-----
0102 BARLEY AND RYE-----	937,909	-----	937,909	-----	-----	-----	-----
0103 CORN-----	177,713	-----	177,713	-----	-----	-----	-----
0104 OATS-----	326	-----	326	-----	-----	-----	-----
0106 BORGHUM GRAINS-----	93,431	-----	93,431	-----	-----	-----	-----
0107 WHEAT-----	10,854,573	-----	10,836,473	-----	-----	20,100	-----
0111 SOYBEANS-----	60,430	-----	60,430	-----	-----	-----	-----
0119 OILSEEDS, NEC-----	68	15	53	-----	-----	-----	-----
0121 TOBACCO, LEAF-----	787	787	-----	-----	-----	-----	-----
0129 FIELD CROPS, NEC-----	16,127	109	16,018	-----	-----	-----	-----
0131 FRESH FRUIT-----	3,658	-----	1,862	-----	142	412	597
0132 BANANAS AND PLANTAINS-----	11	11	-----	-----	-----	-----	645
0133 COFFEE-----	1,127	1,127	-----	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	61,391	182	51,998	-----	-----	2,516	7,595
0151 LIVE ANIMALS-----	264	-----	264	-----	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	2,283	264	2,019	-----	-----	-----	-----
0191 MISCELLANEOUS FARM PRODUCTS-----	235	150	28	-----	-----	31	-----
0201 CRUDE RUBBER AND ALLIED GUMS-----	2,365	2,362	3	-----	-----	-----	-----
0261 FOREST PRODUCTS, NEC-----	678	79	78	-----	63	19	439
0911 FRESH FISH, EXCEPT SMELLFISH-----	4,159	162	3,977	-----	-----	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	543	158	256	-----	-----	-----	129
1021 COPPER ORE AND CONCENTRATES-----	63,269	-----	63,269	-----	-----	-----	-----
1051 ALUMINUM ORES, CONCENTRATES-----	1,179,916	1,179,903	13	-----	-----	-----	-----
1061 MANGANESE ORES, CONCENTRATES-----	57	-----	57	-----	-----	-----	-----
1091 NONFERROUS ORES, CONCENTRATES, NEC-----	18,675	18,378	278	-----	-----	19	-----
1121 COAL AND LIGNTITE-----	4,508	4,498	10	-----	-----	-----	-----
1341 CRUDE PETROLEUM-----	249,738	38,043	-----	211,695	-----	-----	-----
1411 LIMESTONE-----	49,985	37,307	23	12,655	-----	-----	-----
1412 BUILDING STONE, UNWORKED-----	153	-----	153	-----	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	140,665	136,460	-----	3,805	-----	-----	-----
1491 LLAY-----	229,660	300	229,569	-----	-----	-----	-----
1491 SALT-----	410,196	410,129	-----	-----	-----	-----	67
1499 NONMETALLIC MINERALS, NEC-----	33,704	1,244	23,218	-----	-----	2,507	6,735
1911 ORDNANCE AND ACCESSORIES-----	46	-----	46	-----	-----	-----	-----
2031 MEAT, FRESH, CHILLED, FROZEN-----	5,764	26	5,665	-----	3	20	1

## Waterborne Commerce of the United States, 1982

COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW  
VANCOUVER, WASH., AND PORTLAND, OREG.=CONTINUED

## FREIGHT TRAFFIC, 1982--CONTINUED

## OCEANGOING--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN			DOMESTIC COASTWISE			THROUGH UPBOUND   DOWNBOUND
		IMPORTS	EXPORTS	THROUGH UPBOUND	RECEIPTS	SHIPMENTS	UPBOUND	
							DOWNBOUND	
2012 MEAT AND PRODUCTS, NEC	51	-----	51	-----	-----	-----	-----	-----
2014 TALLOW, ANIMAL FATS AND OILS	4,493	-----	4,493	-----	-----	-----	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC	37,737	22	37,715	-----	-----	71	-----	70
2021 DAIRY PRODUCTS, NEC	404	353	-----	-----	-----	71	-----	-----
2022 DRIED MILK AND CREAM	3,252	1	3,251	-----	-----	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED	3,293	1,763	1,510	-----	-----	-----	-----	-----
2034 VEGETABLES AND PREP, NEC	57,923	4,181	51,958	231	267	197	1,089	-----
2035 PREP FRUIT AND VEG JUICE, NEC	21,770	6,775	6,295	2,651	30	5,023	105	-----
2041 WHEAT FLOUR AND SEMOLINA	10,390	-----	10,390	-----	-----	-----	-----	-----
2042 ANIMAL FEEDS	127,414	-----	115,787	-----	-----	1,022	-----	10,605
2047 GRAIN MILL PRODUCTS, NEC	6,290	66	6,224	-----	-----	-----	-----	-----
2061 SUGAR	11,009	-----	11,009	-----	-----	-----	-----	-----
2062 MOLASSES	35,321	4,885	-----	7,155	-----	23,261	-----	-----
2081 ALCOHOLIC BEVERAGES	10,239	4,441	1,650	-----	315	-----	3,833	-----
2091 VEGETABLE OILS, MARG, SHORT	71,050	69,520	445	-----	44	-----	1,041	-----
2094 GROCERIES	206	-----	-----	1	37	1	169	-----
2099 MISCELLANEOUS FOOD PRODUCTS	23,471	584	21,715	-----	14	178	-----	980
2111 TOBACCO MANUFACTURES	5	5	-----	-----	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS	6,830	6,636	186	-----	-----	-----	-----	8
2311 APPAREL	2,203	2,164	39	-----	-----	-----	-----	-----
2411 LOGS	3,525,774	-----	3,525,634	-----	136	-----	-----	-----
2413 FUEL WOOD, CHARCOAL, WASTES	1,577	-----	236	-----	269	9	1,063	-----
2414 TIMBER, POSTS, POLES, PILING	5,289	-----	5,289	-----	-----	-----	-----	-----
2416 WOOD CHIPS, STAVES, HOLDINGS	980,003	1,660	978,343	-----	-----	-----	-----	-----
2421 LUMBER	500,139	9,904	369,287	2,159	114,180	218	4,391	-----
2431 VENEER, PLYWOOD, WORKED WOOD	92,589	30,141	49,318	-----	10,764	-----	2,366	-----
2491 WOOD MANUFACTURES, NEC	18,858	4,002	6,387	-----	5,241	-----	3,228	-----
2511 FURNITURE AND FIXTURES	2,192	1,083	275	-----	100	124	107	499
2611 PULP	57,274	2,360	58,914	-----	-----	-----	-----	-----
2621 STANDARD NEWSPRINT PAPER	552	-----	-----	-----	-----	-----	552	-----
2631 PAPER AND PAPERBOARD	464,398	22,568	435,417	-----	2,175	-----	4,238	-----
2691 PULP AND PAPER PRODUCTS, NEC	16,945	29	460	-----	2,669	-----	13,807	-----
2711 PRINTED MATTER	330	272	67	-----	-----	-----	-----	-----
2810 BODIUM HYDROXIDE	67,700	-----	-----	12,000	55,700	-----	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS	9,897	-----	-----	9,897	-----	20	-----	220
2812 DYES, PIGMENT, TANNING MATS	281	-----	1	-----	-----	-----	-----	-----
2816 RADIOACTIVE MATERIALS, WASTES	6	6	-----	-----	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC	465,469	48,721	88,204	318,127	6,793	22	1,598	-----
2821 PLASTIC MATERIALS	1,625	546	870	-----	107	-----	302	-----
2822 SYNTHETIC (MAN-MADE) FIBERS	3	-----	3	-----	-----	-----	-----	-----
2823 SYNTHETIC (MAN-MADE) DRUGS	621	603	18	-----	-----	-----	-----	-----
2841 SOAP	101	39	62	-----	-----	-----	-----	-----
2851 PAINTS	224	162	62	-----	-----	-----	-----	-----
2861 GUM AND WOOD CHEMICALS	500	280	220	-----	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS	20	19	1	-----	-----	-----	-----	-----
2873 PHOSPHATIC CHEM FERTILIZERS	236,252	19,996	-----	136,524	70,933	-----	8,799	-----
2876 INSECTICIDES, DISINFECTANTS	60	-----	60	-----	-----	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC	373	202	105	-----	-----	18	-----	48
2891 MISCELLANEOUS CHEMICAL PROD	566	-----	566	-----	-----	-----	-----	-----
2901 GASOLINE	24,149	288	467	12,688	11,906	-----	-----	-----
2902 JET FUEL	592,872	138,491	41	454,300	-----	-----	-----	-----
2913 KEROSENE	56,452	-----	-----	56,452	-----	-----	-----	-----
2914 DISTILLATE FUEL OIL	740,470	9,026	22,735	685,356	67,353	-----	-----	-----
2915 RESIDUAL FUEL OIL	1,765,015	33,532	-----	1,710,333	12,050	-----	-----	-----
2916 LUBRICATING OILS AND GREASES	62,545	-----	195	62,540	-----	-----	-----	-----
2917 NAPHTHA, PETROLEUM SOLVENTS	9,956	-----	-----	1,632	8,124	-----	-----	-----
2918 ASPHALT, TAR, AND PITCHES	113,449	34,926	2	72,261	1,585	-----	4,675	-----
2920 CORE, PETROLEUM CORES	76,253	41,137	37,116	-----	-----	-----	-----	-----
2951 ASPHALT BUILDING MATERIALS	288	-----	288	-----	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC	42	42	-----	-----	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD	9,366	7,954	301	7	729	-----	375	-----
3111 LEATHER AND LEATHER PRODUCTS	6,506	6,242	264	-----	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS	973	840	118	-----	-----	-----	15	-----
3281 BUILDING CEMENT	5,701	-----	74	5,608	61	-----	158	-----
3281 CUT STONE AND STONE PRODUCTS	437	205	13	-----	129	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD	73	73	-----	-----	-----	-----	-----	-----
3312 SLAG	9,001	1,993	778	3,051	1,015	-----	2,164	-----
3314 IRON AND STEEL PRIMARY FORMS	631	-----	-----	-----	314	-----	317	-----
3315 IRON, STEEL SHAPES, ETC SHEETS	153	13	6	-----	60	-----	74	-----
3316 IRON AND STEEL PLATES, SHEETS	209,173	208,570	20	-----	577	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE	44,725	47,121	20	-----	380	-----	1,204	-----
3318 FERROALLOYS	70,578	70,009	385	-----	65	-----	119	-----
3319 IRON AND STEEL PRODUCTS, NEC	4,976	4,814	162	-----	-----	-----	-----	-----
3321 NONFERROUS METALS, NEC	2,480	2,390	90	-----	-----	-----	-----	-----
3322 COPPER ALLOYS, UNWORKED	822	699	52	-----	71	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED	693	384	109	-----	-----	-----	-----	-----
3328 ALUMINUM AND ALLOYS, UNWORKED	4,188	622	3,566	-----	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS	70,254	62	70,192	-----	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL	36,584	26,731	3,914	-----	2,818	-----	3,121	-----
3611 ELECTRICAL MACH AND EQUIP	29,957	21,283	6,637	-----	6	142	66	1,023
3711 MOTOR VEHICLES, PARTS, EQUIP	8,381	6,040	931	-----	-----	202	-----	1,208
3721 AIRCRAFT AND PARTS	302,433	290,473	1,810	-----	182	596	430	942
3731 SHIPS AND BOATS	3	-----	3	-----	-----	-----	3	-----
3791 MISC TRANSPORTATION EQUIPMENT	97	70	24	-----	-----	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS	304	195	140	2	43	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS	1,019	905	116	-----	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP	2,650	1,024	456	13	47	81	669	-----
4012 NONFERROUS METAL SCRAP	170,435	191	170,034	141	-----	69	-----	-----
4022 TEXTILE WASTE, SCRAP, SHEEP	21,864	-----	21,864	-----	-----	-----	-----	-----
	71	40	31	-----	-----	-----	-----	-----

**PORLAND, OR, DISTRICT**

COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW  
VANCOUVER, WASH., AND PORTLAND, OREG.--CONTINUED

45

FREIGHT TRAFFIC, 1962--CONTINUED

OCEANOING--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN			DOMESTIC COASTWISE		
		IMPORTS	EXPORTS	THROUGH UPBOUND	RECEPTS	SHIPMENTS	UPBOUND
4024 PAPER WASTE AND SCRAP-----	13,480	-----	13,480	-----	114	3,835	157
4112 COMMODITIES, NEC-----	10,690	1,568	61	-----	114	3,835	157
4119 EMPTY CONTAINERS-----	125	-----	-----	-----	54	54	67
9999 DEPARTMENT OF DEFENSE AND SCI-----	410	-----	410	-----	-----	-----	-----
TON-MILES, OCEANOING, -----	2,481,752,225.	-----	-----	-----	-----	-----	-----

INTERNAL

(SHORT TONS)

COMMODITY	TOTAL	INTERNAL			THROUGH		
		INBOUND	OUTBOUND	UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND
TOTAL-----	15,446,386	8,265,725	2,495,949	2,135,037	1,936,790	351,372	259,513
0102 BARLEY AND RYE-----	220,986	216,137	-----	-----	8,849	-----	-----
0103 CORN-----	2,580	2,037	-----	-----	-----	-----	543
0107 WHEAT-----	5,235,173	5,186,630	7,866	26,725	11,952	-----	-----
0111 SOYBEANS-----	154	-----	-----	-----	-----	-----	154
0122 HAY AND FODDER-----	5,201	2,170	-----	-----	-----	18	3,013
0129 FIELD CROPS, NEC-----	813	269	-----	-----	-----	-----	544
0141 FRESH AND FROZEN VEGETABLES-----	6,504	2,605	-----	-----	-----	430	3,449
0161 ANIMALS AND PRODUCTS, NEC-----	951	545	-----	-----	-----	-----	406
0911 FRESH FISH, EXCEPT SHELLFISH-----	22,914	16,036	-----	157	-----	4,546	2,175
0912 SHELLFISH, EXCEPT PREPARED-----	8,298	6,972	-----	-----	-----	1,326	-----
1411 LIMESTONE-----	798	-----	798	-----	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	1,621,785	1,131,038	31,023	950	71,180	212,451	175,143
1451 CLAY-----	16,309	-----	16,309	-----	-----	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	166	-----	-----	-----	-----	-----	166
2015 ANIMAL BY-PRODUCTS, NEC-----	13,328	2,082	-----	-----	-----	-----	11,246
2034 VEGETABLES AND PREP, NEC-----	1,198	156	-----	-----	-----	22	1,020
2042 ANIMAL FEEDS-----	255	185	-----	-----	-----	-----	70
2043 GRAIN MILL PRODUCTS, NEC-----	11,065	-----	10,891	-----	-----	-----	174
2062 MOLASSES-----	39,142	27,298	11,844	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	76	-----	-----	-----	-----	76	-----
2411 LOGS-----	14,842	6,346	3,265	728	86	1,100	1,317
2412 RAFTED LOGS-----	3,908,164	747,513	542,655	1,140,128	1,328,290	121,840	27,738
2413 FUEL WOOD, CHARCOAL, WASTES-----	10,751	14,651	-----	-----	100	-----	-----
2414 TIMBER, POLES, POLES, PILING-----	1,062	36	500	468	58	-----	-----
2416 WOOD CHIPS, STAVES, HOLDINGS-----	500,204	407,788	-----	1,440	-----	976	-----
2421 LUMBER-----	13	-----	-----	13	-----	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	11,768	-----	-----	11,768	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	5	-----	-----	-----	-----	5	-----
2611 PULP-----	249,151	-----	249,151	-----	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	727,111	360,683	95,108	239,031	-----	806	31,483
2699 BASIC CHEMICALS AND PROD, NEC-----	4,298	-----	4,298	-----	-----	-----	-----
2821 PLASTIC MATERIALS-----	1,502	-----	1,502	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	37,447	10,875	25,372	1,200	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	69	-----	69	-----	-----	-----	-----
2911 GASOLINE-----	635,030	27,594	513,767	44,347	49,522	-----	-----
2912 JET FUEL-----	16,949	-----	16,949	-----	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	640,269	4,060	504,392	52,606	79,211	-----	-----
2915 RESIDUAL FUEL OIL-----	1,286,338	-----	326,934	578,871	380,533	-----	-----
2916 ASPHALT, TAR, AND PITCHES-----	4,386	-----	4,386	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	3,655	-----	3,655	-----	-----	-----	-----
3211 RUBBER AND MISC PLASTIC PROD-----	107	-----	17	-----	-----	107	-----
3271 GLASS AND GLASS PRODUCTS-----	34	-----	17	-----	-----	17	-----
3291 MISC NONMETALLIC MINERAL PROD-----	1,029	-----	1,029	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	1,675	-----	-----	-----	1,675	-----	-----
3411 FABRICATED METAL PRODUCTS-----	1,515	-----	-----	-----	1,515	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	66	-----	-----	20	-----	66	-----
4029 WASTE AND SCRAP, NEC-----	230	-----	-----	100	37	93	-----
4119 EMPTY CONTAINERS-----	167,812	-----	127,000	30,830	9,982	-----	7,493
TON-MILES, INTERNAL, -----	284,931,169	-----	-----	-----	-----	872	-----

TONS, ALL TRAFFIC, 41,423,455.  
TONS, ALL TRAFFIC, 2,766,663,394.

*Waterborne Commerce of the United States, 1982*

YOUNGS BAY AND YOUNGS RIVER, OREG.

SECTION INCLUDED: FROM COLUMBIA RIVER TO FOOT OF HAVEN ISLAND, A DISTANCE OF 6.7 MILES. CONTROLLING DEPTH: 9 FEET IN YOUNGS BAY. PROJECT DEPTH: 10 FEET FROM COLUMBIA RIVER TO FOOT OF HAVEN ISLAND, A DISTANCE OF ABOUT 2.5 MILES ACROSS YOUNGS BAY & 4 MILES IN YOUNGS RIVER.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973-----	31	80,946	80,977	1978-----	725,776	725,776	
1974-----	64	456,402	456,466	1979-----	559,669	559,669	
1975-----	1,004	927,410	928,414	1980-----	19,491	705,803	725,294
1976-----	538	1,084,602	1,087,140	1981-----	51,529	641,989	533,518
1977-----	546	923,327	923,673	1982-----	16,649	372,998	389,647

FREIGHT TRAFFIC, 1982

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	INTERNAL		
		INBOUND	OUTBOUND	UPBOUND
0107 WHEAT-----	6,509	-----	6,509	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	280	280	-----	-----
2412 RAFTED LOGS-----	372,998	81,312	170,706	120,980
2915 RESIDUAL FUEL OIL-----	9,860	9,860	-----	-----
TOTAL TON-MILES,	1,518,959			

PORT OF ASTORIA, OREG.

SECTION INCLUDED: (STATISTICS FOR THAT SECTION OF THE PORT WITH FRONTAGE ON THE COLUMBIA RIVER ARE ALSO INCLUDED IN STATISTICS FOR COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG., AND STATISTICS FOR PORT WITH FRONTAGE ON YOUNGS BAY ARE ALSO INCLUDED IN STATISTICS FOR YOUNGS BAY AND YOUNGS RIVER, OREG.) CONTROLLING DEPTH: 38 FEET IN COLUMBIA RIVER AND 9 FEET IN YOUNGS BAY. PROJECT DEPTH: 40 FEET IN COLUMBIA RIVER AND 10 FEET IN YOUNGS BAY.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1973-----	1,726,691	100,395	1,827,286	14	1978-----	1,370,259	951,403	2,330,662	-----
1974-----	1,411,085	822,669	2,233,754	27	1979-----	1,507,240	929,857	2,437,137	752
1975-----	1,958,539	1,274,999	3,233,538	29	1980-----	1,565,869	871,316	2,437,185	370
1976-----	2,738,035	1,429,034	4,167,973	61	1981-----	1,434,549	598,963	2,033,492	468
1977-----	1,540,034	1,068,929	2,620,963	10	1982-----	1,272,911	634,601	1,907,512	178

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			LOCAL
		IMPORTS	EXPORTS	COASTWISE	INTERNAL	SHIPMENTS	
TOTAL-----	1,907,512	9,225	908,299	52,411	801,246	74,077	61,806
0103 CORN-----	24,481	-----	24,481	-----	-----	-----	-----
0107 WHEAT-----	55,032	-----	55,032	-----	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	15,602	9	-----	-----	15,476	157	-----
0912 SHELLFISH, EXCEPT PREPARED-----	6,905	-----	-----	6,905	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	17,266	-----	-----	17,266	-----	-----	-----
2001 WHEAT FLOUR AND SEMOLINA-----	2,278	-----	2,278	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	4	4	-----	-----	-----	-----	-----
2311 APPAREL-----	24	24	-----	-----	-----	-----	-----
2411 LOGS-----	823,050	-----	823,050	-----	-----	-----	-----
2412 RAFTED LOGS-----	634,601	-----	-----	586,863	47,738	-----	-----
2418 TIMBER, POSTS, POLES, PILING-----	3,085	3,085	-----	-----	-----	-----	-----
2421 LUMBER-----	2,053	-----	2,053	-----	-----	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	11,792	24	-----	-----	11,768	-----	-----
2491 WOOD MANUFACTURES, NEC-----	16	16	-----	-----	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	21	21	-----	-----	-----	-----	-----
2611 PULP-----	2,293	2,293	-----	-----	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	6,754	-----	-----	6,754	-----	-----	-----
2911 GASOLINE-----	5,667	-----	-----	5,667	-----	-----	-----
2918 DISTILLATE FUEL OIL-----	38,729	-----	-----	33,962	377	4,390	-----
2915 RESIDUAL FUEL OIL-----	250,612	-----	50,808	135,195	7,283	57,416	-----
3111 LEATHER AND LEATHER PRODUCTS-----	1	1	-----	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	4,257	4,257	-----	-----	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	1,549	1,549	-----	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	599	599	-----	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	418	418	-----	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	330	-----	330	-----	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	6	1	5	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	36	-----	36	-----	-----	-----	-----
3731 SHIPS AND BOATS-----	2	2	-----	-----	-----	-----	-----

**PORLAND, OR, DISTRICT**

47

PORT OF ASTORIA, OREG.--CONTINUED

FREIGHT TRAFFIC, 1982--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	
3791 MISC TRANSPORTATION EQUIPMENT	40			40		
3911 MISC MANUFACTURED PRODUCTS	1					
4112 COMMODITIES, NEC	8					

PORTS OTHER THAN PORTLAND, ASTORIA, ST. HELENS,  
LONGVIEW, VANCOUVER AND KALAMA

SECTION INCLUDED: (INCLUDED IN STATISTICS FOR COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG.)  
PORTS INCLUDED: BRADWOOD, WAUNA, REAVIER POINT, RAINIER AND PRESCOTT, OREG., AND KNAPPTON, WASH. CONTROLLING DEPTH: 34 FEET. PROJECT  
DEPTH: 40 FEET AT LOW WATER IN MAIN CHANNEL.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973-----	1,291,798	357,728	1,649,526	1978-----	1,065,622	273,410	1,289,092
1974-----	1,549,375	287,627	1,837,002	1979-----	1,332,426	227,773	1,553,199
1975-----	1,157,773	413,722	1,571,495	1980-----	823,095	425,042	1,246,147
1976-----	1,043,325	346,074	1,389,799	1981-----	901,164	225,314	1,180,478
1977-----	1,199,627	271,579	1,471,206	1982-----	847,524	276,278	1,165,802

FREIGHT TRAFFIC, 1982

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE		INTERNAL	
		RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
TOTAL-----	1,165,802	1,325	3,700	766,068	394,709
1442 SAND, GRAVEL, CRUSHED ROCK-----	456,798			454,798	
2012 RAFTED LOGS-----	278,278			197,915	80,363
2413 FUEL WOOD, CHARCOAL, WASTES-----	3,519			3,519	
2416 WOOD CHIPS, STAVES, HOLDINGS-----	26,513			26,513	
2421 LUMBER-----	3,700			3,700	
2691 PULP AND PAPER PRODUCTS, NEC-----	309,713			8,101	301,612
2614 DISTILLATE FUEL OIL-----	12,734				12,734
2615 RESIDUAL FUEL OIL-----	68,565	1,325		67,240	
4029 WASTE AND SCRAP, NEC-----	9,982			9,982	

PORT OF LONGVIEW, WASH.

SECTION INCLUDED: (INCLUDED IN STATISTICS FOR COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG.)  
CONTROLLING DEPTH: 37 FEET IN CHANNEL AND 38 FEET IN TURNING BASIN. PROJECT DEPTH: 40 FOOT CHANNEL IN COLUMBIA RIVER AND 6,000 FOOT  
TURNING BASIN AT LOW WATER.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1973-----	5,444,493	414,989	5,859,442	34	1978-----	7,423,913	948,782	8,372,695	-----
1974-----	5,964,459	1,733,152	7,697,611	20	1979-----	6,959,661	1,540,409	8,510,070	-----
1975-----	5,648,647	1,731,772	7,380,419	-----	1980-----	8,543,000	1,413,229	9,956,229	-----
1976-----	7,268,877	1,954,649	9,223,526	-----	1981-----	8,515,266	1,140,750	9,656,016	-----
1977-----	6,664,771	1,504,615	8,169,386	-----	1982-----	7,525,139	1,234,991	8,760,130	-----

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	COASTWISE RECEIPTS	INTERNAL SHIPMENTS	
TOTAL-----	8,760,130	583,001	5,236,975	218,797	86,257	1,445,285
0102 BARLEY AND RYE-----	150,771		123,210			27,561
0103 CORN-----	96,079		96,019			80
0106 BORGHUM GRAINS-----	46,225		46,225			
0107 WHEAT-----	2,724,271		1,624,632			595,839
0111 SOYBEANS-----	6,329		6,329			
0122 HAY AND FODDER-----	2,170					2,170
0129 FIELD CROPS, NEC-----	1,104		1,104			
0141 FRESH AND FROZEN VEGETABLES-----	14,199		14,110			89
0861 FOREST PRODUCTS, NEC-----	11		11			

## Waterborne Commerce of the United States, 1982

PORT OF LONGVIEW, WASH.--CONTINUED

FREIGHT TRAFFIC, 1982--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
0911 FRESH FISH, EXCEPT SHELLFISH-----	64	34	-----	-----	-----	30	-----
1051 ALUMINUM ORES, CONCENTRATES-----	339,383	339,383	-----	-----	-----	-----	-----
1451 CLAY-----	21,880	111	21,769	-----	-----	-----	-----
1491 SALT-----	239,625	239,625	-----	-----	-----	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	41	-----	41	-----	-----	-----	-----
1911 ORDNANCE AND ACCESSORIES-----	5	-----	5	-----	-----	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC-----	642	-----	-----	-----	602	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	1	-----	1	-----	-----	-----	-----
2034 VEGETABLES AND PREP., NEC-----	183	-----	27	-----	-----	156	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	284	278	6	-----	-----	-----	-----
2041 WHEAT FLOUR AND SEMOLINA-----	946	-----	946	-----	-----	-----	-----
2042 ANIMAL FEEDS-----	97,994	-----	97,994	-----	-----	-----	-----
2061 SUGAR-----	11,009	-----	11,009	-----	-----	-----	-----
2081 ALCOMOLIC BEVERAGES-----	2	2	-----	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	5	-----	5	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	27	27	-----	-----	-----	-----	-----
2311 APPAREL-----	206	245	1	-----	-----	-----	-----
2411 LOGS-----	2,420,985	2,418,509	-----	-----	2,315	161	-----
2412 RAFTED LOGS-----	1,234,991	-----	-----	-----	75,070	1,111,284	48,637
2413 FUEL WOOD, CHARCOAL, WASTES-----	11,132	-----	-----	-----	11,132	-----	-----
2414 TIMBER, POSTS, POLES, PILING-----	887	-----	759	-----	-----	14	114
2416 WOOD CHIPS, STAVES, HOLDINGS-----	719,477	-----	244,762	-----	-----	474,715	-----
2421 LUMBER-----	181,872	-----	122,137	-----	59,735	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	11,621	549	10,950	-----	322	-----	-----
2491 WOOD MANUFACTURES, NEC-----	776	1	775	-----	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	58	58	-----	-----	-----	-----	-----
2611 PULP-----	49,591	49,591	-----	-----	-----	-----	-----
2621 PAPER AND PAPERBOARD-----	293,979	293,979	-----	-----	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	1,058	-----	374	-----	684	-----	-----
2711 PRINTED MATTER-----	12	11	1	-----	-----	-----	-----
2810 SODIUM HYDROXIDE-----	26,200	-----	-----	26,200	-----	-----	-----
2819 BASIC CHEMICALS AND PROD., NEC-----	34,456	20	34,436	-----	-----	-----	-----
2831 DRUGS-----	23	23	-----	-----	-----	-----	-----
2851 PAINTS-----	1	1	-----	-----	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	566	-----	566	-----	-----	-----	-----
2911 GASOLINE-----	33,037	-----	-----	-----	33,037	-----	-----
2914 DISTILLATE FUEL OIL-----	42,078	-----	-----	-----	42,078	-----	-----
2915 RESIDUAL FUEL OIL-----	391,984	-----	210,904	-----	179,693	1,387	-----
2918 ASPHALT, TAR, AND PITCHES-----	7,893	-----	7,893	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	12	12	-----	-----	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	54	54	-----	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	3	3	-----	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	1,104	1,104	-----	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	287	287	-----	-----	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED-----	190	-----	190	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	5,510	-----	5,510	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	145	34	111	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	326	11	315	-----	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	431	410	21	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	3	1	2	-----	-----	-----	-----
3731 SHIPS AND BOATS-----	21	1	20	-----	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	11	-----	11	-----	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODES-----	3	3	-----	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	111	111	-----	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	10	10	-----	-----	-----	-----	-----
4012 NONFERROUS METAL SCRAP-----	6,225	-----	6,225	-----	-----	-----	-----
4022 TEXTILE WASTE, SCRAP, SHEEP-----	18	-----	18	-----	-----	-----	-----
4026 PAPER WASTE AND SCRAP-----	480	-----	480	-----	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	27,832	-----	-----	-----	27,832	-----	-----
4112 COMMODITIES, NEC-----	981	981	-----	-----	-----	-----	-----

PORT OF KALAMA, WASH.

SECTION INCLUDED: (INCLUDED IN STATISTICS FOR COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG.)  
CONTROLLING DEPTH: 38 FEET, PROJECT DEPTH: 40 FEET AT LOW WATER.

## COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973-----	1,164,927	216,861	1,381,788	1978-----	854,474	167,760	1,013,223
1974-----	1,157,673	94,632	1,252,305	1979-----	977,278	166,573	1,141,851
1975-----	1,362,097	186,785	1,548,882	1980-----	1,311,370	154,322	1,465,692
1976-----	1,073,462	211,014	1,284,876	1981-----	1,521,654	136,792	1,658,446
1977-----	671,322	187,652	858,974	1982-----	1,382,349	106,403	1,488,792

**PORTLAND, OR, DISTRICT**

49

PORT OF KALAMA, WASH.--CONTINUED

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		IMPORTS	EXPORTS	COASTWISE SHIPMENTS	RECEIPTS
TOTAL-----	1,488,792	30,782	753,736	20,100	605,027
0102 BARLEY AND RYE-----	77,548	-----	57,273	-----	20,275
0103 CORN-----	57,417	-----	55,440	-----	1,977
0107 WHEAT-----	1,190,152	-----	641,023	20,100	529,029
0911 FRESH FISH, EXCEPT SHELLFISH-----	18	-----	-----	-----	18
1402 SAND, GRAVEL, CRUSHED ROCK-----	17,060	-----	-----	-----	17,980
2031 FISH AND SHELLFISH, PREPARED-----	13	13	-----	-----	-----
2412 RAFTED LOGS-----	106,403	-----	-----	-----	25,406
2414 TIMBER, POSTS, POLES, PILING-----	150	-----	-----	-----	150
2611 BASIC CHEMICALS AND PROD, NEC-----	30,762	30,762	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	233	-----	-----	233	-----
2915 RESIDUAL FUEL OIL-----	4,682	-----	-----	4,682	-----
3201 MISC NONMETALLIC MINERAL PHOD-----	1,675	-----	-----	1,675	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	1,935	-----	-----	1,935	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	37	-----	-----	-----	37
3911 MISC MANUFACTURED PRODUCTS-----	7	7	-----	-----	-----

MULTNOMAH CHANNEL, OREG.

SECTION INCLUDED: A SIDE CHANNEL FROM THE WILLAMETTE RIVER NEAR PORTLAND, OREG., TO THE COLUMBIA RIVER NEAR ST. HELENS, OREG., A DISTANCE OF ABOUT 22 MILES. CONTROLLING DEPTHS: 18 FEET IN A 300-FOOT CHANNEL AT NORTH END; 14.5 TO 21 FEET IN A 250-FOOT CHANNEL AT SOUTH END; 8 TO 50 FEET IN REMAINDER OF CHANNEL. PROJECT DEPTHS: 25 FEET DEEP AND 5,000 FEET LONG AT THE COLUMBIA RIVER END; 25 FEET DEEP AND 9,500 FEET LONG AT THE WILLAMETTE RIVER END.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973-----	1,841,124	124,834	1,965,958	1978-----	1,656,217	584,880	2,241,097
1974-----	1,958,931	1,049,369	3,008,300	1979-----	1,348,658	756,553	2,105,211
1975-----	1,492,640	1,082,118	2,574,758	1980-----	1,120,079	770,197	1,890,276
1976-----	1,034,938	1,084,575	2,119,513	1981-----	1,251,192	435,267	1,686,479
1977-----	1,397,675	759,040	2,156,715	1982-----	1,079,191	521,972	1,601,163

FREIGHT TRAFFIC, 1982

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	INBOUND	INTERNAL		
			OUTBOUND	UPBOUND	DOWNBOUND
TOTAL-----	1,601,163	584,324	991,892	16,699	46,246
1402 SAND, GRAVEL, CRUSHED ROCK-----	706,341	-----	706,341	-----	-----
2411 LOGS-----	2,417	-----	2,417	-----	-----
2412 RAFTED LOGS-----	521,972	224,084	230,943	16,699	46,246
2414 TIMBER, POSTS, POLES, PILING-----	36	-----	36	-----	-----
2416 WOOD CHIPS, STAVES, MOLDING-----	26,849	-----	26,849	-----	-----
2611 PULP-----	249,151	249,151	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	25,306	-----	25,306	-----	-----
2915 RESIDUAL FUEL OIL-----	69,091	69,091	-----	-----	-----
TOTAL TON-MILES, 14,966,488,					

OREGON SLOUGH (NORTH PORTLAND HARBOR), OREG.

SECTION INCLUDED: FROM DEEP WATER IN THE COLUMBIA RIVER TO A POINT ABOVE THE PORTLAND UNION STOCK YARDS, A DISTANCE OF NEARLY 4 MILES, CONTROLLING DEPTH: 11 FEET. PROJECT DEPTH: 20 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973-----	171,625	173,215	344,840	1978-----	312,064	202,311	514,375
1974-----	262,300	258,921	521,221	1979-----	329,216	60,913	390,129
1975-----	193,237	169,267	362,504	1980-----	306,665	20,805	327,470
1976-----	132,669	290,700	423,369	1981-----	692,650	17,726	710,376
1977-----	158,611	131,768	290,379	1982-----	667,232	1,066	669,198

\* PASSENGERS--6,194.

## Waterborne Commerce of the United States, 1982

OREGON BOROUGH (NORTH PORTLAND HARBOR), OREG.--CONTINUED

## FREIGHT TRAFFIC, 1982

## DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE		INTERNAL	
		RECEIPTS	SHIPMENTS	INBOUND	OUTBOUND
TOTAL	669,198	31,236	91,892	293,067	253,003
0103 CORN-BEANS	583	-----	-----	583	-----
0111 SOYBEANS	154	-----	-----	154	-----
0122 HAY AND FORAGE	3,031	-----	-----	3,013	18
0129 FIELD CROPS, NEC	588	-----	-----	588	-----
0131 FRESH FRUITS	1,262	597	645	-----	-----
0141 FRESH AND FROZEN VEGETABLES	11,494	-----	7,595	3,849	450
0161 ANIMALS AND PRODUCTS, NEC	406	-----	-----	406	-----
0191 MISCELLANEOUS FARM PRODUCTS	31	31	-----	-----	-----
0861 FOREST PRODUCTS, NEC	458	19	439	-----	-----
0912 SHELLFISH, EXCEPT PREPARED	129	-----	129	-----	-----
1462 SAND, GRAVEL, CRUSHED ROCK	413,024	-----	-----	198,188	214,836
1491 SALT	67	67	67	-----	-----
1499 NONMETALLIC MINERALS, NEC	6,901	-----	6,735	166	-----
2011 MEAT, FRESH, CHILLED, FROZEN	50	1	49	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC	11,246	-----	-----	11,246	-----
2021 DAIRY PRODUCTS, NEC	70	70	70	-----	-----
2034 VEGETABLES AND PREP, NEC	2,328	197	1,049	1,020	28
2038 PREP FRUIT AND VEG JUICE, NEC	6,028	5,923	105	-----	-----
2042 ANIMAL FEEDS	16,975	-----	10,605	70	-----
2049 GRAIN MILL PRODUCTS, NEC	178	-----	-----	174	-----
2062 MOLASSES	50,579	23,281	-----	-----	27,298
2081 ALCOHOLIC BEVERAGES	3,909	-----	3,833	-----	76
2091 VEGETABLE OILS, HARM, SHORT	1,081	-----	1,041	-----	-----
2099 GROCERIES	170	1	169	-----	-----
2299 MISCELLANEOUS FOOD PRODUCTS	980	-----	980	-----	-----
2211 BASIC TEXTILE PRODUCTS	8	-----	8	-----	-----
2212 RAFTED LOGS	1,966	-----	-----	1,966	-----
2413 FUEL WOOD, CHARCOAL, WASTES	1,072	9	1,063	-----	-----
2421 LUMBER	4,609	216	4,391	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD	2,366	-----	2,366	-----	-----
2491 WOOD MANUFACTURES, NEC	3,228	-----	3,228	-----	-----
2511 FURNITURE AND FIXTURES	611	107	609	-----	5
2621 STANDARD NEWSPRINT PAPER	552	-----	552	-----	-----
2631 PAPER AND PAPERBOARD	4,238	-----	4,238	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC	45,666	-----	13,607	31,483	576
2612 DYES, PIGMENT, TANNING MATS	220	-----	220	-----	-----
2619 BASIC CHEMICALS AND PROD, NEC	420	22	398	-----	-----
2621 PLASTIC MATERIALS	302	-----	302	-----	-----
2671 NITROGENOUS CHEM FERTILIZERS	7,099	-----	7,099	-----	-----
2676 INSECTICIDES, DISINFECTANTS	46	-----	46	-----	-----
2914 DISTILLATE FUEL OIL	642	-----	642	-----	-----
2915 RESIDUAL FUEL OIL	40,897	-----	40,897	-----	-----
2918 ASPHALT, TAR, AND PITCHES	4,675	-----	4,675	-----	-----
3211 RUBBER AND MISC PLASTIC PROD	482	-----	375	-----	107
3213 GLASS AND GLASS PRODUCTS	32	-----	15	-----	17
3241 BUILDING CEMENT	158	-----	158	-----	-----
3291 MISC NONMETALLIC MINERAL PROD	2,164	-----	2,164	-----	-----
3312 SLAG	317	-----	317	-----	-----
3316 IRON AND STEEL PRIMARY FORMS	74	-----	74	-----	-----
3316 IRON AND STEEL PLATES, SHEETS	1,204	-----	1,204	-----	-----
3317 IRON AND STEEL PIPE AND TUBE	119	-----	119	-----	-----
3431 FABRICATED METAL PRODUCTS	3,167	-----	3,121	-----	46
3511 MACHINERY, EXCEPT ELECTRICAL	282	66	123	-----	93
3611 ELECTRICAL MACH AND EQUIP	1,208	-----	1,208	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP	1,372	430	942	-----	-----
3731 SHIPS AND BOATS	3	-----	3	-----	-----
3911 MISC MANUFACTURED PRODUCTS	710	41	669	-----	-----
4011 IRON AND STEEL SCRAP	69	69	69	-----	-----
4112 COMMODITIES, NEC	5,112	157	4,955	-----	-----
4119 EMPTY CONTAINERS	8,032	67	67	472	7,493

## PORT OF VANCOUVER, WASH.

SECTION INCLUDED: (STATISTICS FOR THAT SECTION OF THE PORT BELOW INTERSTATE BRIDGE ARE ALSO INCLUDED IN THE STATISTICS FOR COLUMBIA AND LOWER WILLAMETTE RIVER BELOW VANCOUVER, WASH., AND PORTLAND, OREG., AND STATISTICS FOR SECTION ABOVE INTERSTATE BRIDGE ARE ALSO INCLUDED IN STATISTICS FOR COLUMBIA RIVER FROM VANCOUVER, WASH., TO THE DALLES, OREG.) CONTROLLING DEPTH 30 FEET AT LOW WATER FOR THAT SECTION OF THE PORT BELOW RAILROAD BRIDGE AND 15 FEET FOR THAT SECTION OF THE PORT ABOVE INTERSTATE BRIDGE. PROJECT DEPTH 40 FEET AT LOW WATER IN THE LOWER TURNING BASIN AND 35 FEET AT LOW WATER IN THE UPPER TURNING BASIN.

## COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973	3,305,961	284,723	3,590,664	1978	3,941,679	273,103	3,214,762
1974	2,791,784	150,500	3,142,364	1979	3,041,947	140,905	3,226,532
1975	3,000,128	457,785	3,467,913	1980	2,779,893	131,599	2,911,452
1976	2,779,076	260,568	3,039,644	1981	2,640,455	115,153	2,755,608
1977	2,568,201	264,472	2,832,673	1982	2,668,608	65,967	2,734,575

**PORLAND, OR, DISTRICT**

PORT OF VANCOUVER, WASH.--CONTINUED

51

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	FOREIGN			DOMESTIC				
	TOTAL	IMPORTS	EXPORTS	COASTWISE	INTERNAL	LOCAL		
TOTAL-----	2,734,575	565,390	540,682	11,516	2,900	1,165,135	410,417	29,538
0102 BARLEY AND RYE-----	25,790					20,941	4,449	
0103 CORN-----	6		6					
0107 WHEAT-----								
0129 FIELD CROPS, NEC-----	1,230,824		340,724			866,338	12,953	10,809
0141 FRESH AND FROZEN VEGETABLES-----	198		198					
0141 FRESH FISH, EXCEPT SHELLFISH-----	173		173					
0912 SHELLFISH, EXCEPT PREPARED-----	393					393		
1021 COPPER ORE AND CONCENTRATES-----	67						67	
1051 ALUMINUM ORES, CONCENTRATES-----	63,269		63,269					
1091 NONFERROUS ORES, CONCENT., NEC-----	390,377	390,377						
1311 CRUDE PETROLEUM-----	8,406							
1499 NONMETALLIC MINERALS, NEC-----	20,878	20,878						
2031 FISH AND SHELLFISH, PREPARED-----	19		19					
2035 PREP FRUIT AND VEG JUICE, NEC-----	21		21					
2041 WHEAT FLOUR AND SEMOLINA-----	36	1	35					
2042 ANIMAL FEEDS-----	432		432					
2081 ALCOLOMIC BEVERAGES-----	247		247					
2099 MISCELLANEOUS FOOD PRODUCTS-----	37	37						
2211 BASIC TEXTILE PRODUCTS-----	242	36	206					
2411 LOGS-----	25	22	3					
2412 RAFTED LOGS-----	5,820		4,388			1,432		
2413 FUEL WOOD, CHARCOAL, HABESTS-----	65,967					39,429	7,412	16,726
2414 TIMBER, POSTS, POLES, PILING-----	100						100	
2421 LUMBER-----	200					200		
2431 VENEER, PLYWOOD, WORKED WOOD-----	76,043	8,008	68,035					
2491 WOOD MANUFACTURES, NEC-----	28,688	22,637	6,051					
2613 PULP-----	2,283	1,955	328					
2631 PAPER AND PAPERBOARD-----	249,815		664				249,151	
2713 PRINTED MATTER-----	7,108	810	6,298					
2819 BASIC CHEMICALS AND PROD, NEC-----	5	3	2					
2871 NITROGENOUS CHEM FERTILIZERS-----	3,729		27			1,200	2,502	
2891 MISCELLANEOUS CHEMICAL PROD-----	34,248	12,500				1,700	20,048	
2911 GASOLINE-----	90	A1	9					
2915 DISTILLATE FUEL OIL-----	112,834	44,631					14,311	53,492
3011 RUBBER AND MISC PLASTIC PROD-----	102,776			7,376			15,773	79,627
3015 RESIDUAL FUEL OIL-----	189,874			6,140			183,701	2,033
3111 LEATHER AND LEATHER PRODUCTS-----	8		A					
3291 MISC NONMETALLIC MINERAL PROD-----	3		3					
3315 IRON, STEEL SHAPES, EXC SHEET-----	7		7					
3316 IRON AND STEEL PLATES, SHEETS-----	15,852	15,851						
3317 IRON AND STEEL PIPE AND TUBE-----	1,799	1,796	3					
3318 FERROALLOYS-----	16,326	18,153	173					
3321 NONFERROUS METALS, NEC-----	3,417	3,417						
3380 ALUMINUM AND ALLOYS, UNWORKED-----	2		2					
3411 FABRICATED METAL PRODUCTS-----	55,395		55,395					
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,237	174	2,060					
3611 ELECTRICAL MACH AND EQUIP-----	773		763					
3711 MOTOR VEHICLES, PARTS, EQUIP-----	34	5	29					
3811 INSTR, TIME, PHOTO, OPT GOODS-----	6,636	6,553	83					
3911 MISC MANUFACTURED PRODUCTS-----	6		6					
4112 COMMODITIES, NEC-----	20	6	14					
	38	38	38					

COLUMBIA RIVER BETWEEN VANCOUVER, WASH.,  
AND THE DALLES, OREG.

SECTION INCLUDED: COLUMBIA RIVER BETWEEN VANCOUVER, WASH., AND THE DALLES, OREG., A DISTANCE OF ABOUT 45 MILES. CONTROLLING DEPTH: 17 FEET BETWEEN VANCOUVER AND THE DALLES. PROJECT DEPTH: 27 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973-----	4,588,252	1,180,436	5,773,088	1974-----	7,876,232	1,112,512	8,988,744
1974-----	4,782,522	2,116,675	6,899,190	1975-----	6,194,993	1,111,874	9,306,867
1975-----	5,403,430	1,807,142	7,210,572	1980-----	9,144,764	1,509,325	10,744,089
1976-----	6,529,546	1,676,266	8,203,812	1981-----	9,075,438	1,233,697	10,309,135
1977-----	6,760,767	1,418,085	8,178,852	1982-----	7,750,152	1,016,249	8,766,401

\* PASSENGERS--37,789.

FREIGHT TRAFFIC, 1982

DOMESTIC

(SHORT TONS)

COMMODITY	DOMESTIC			INTERNAL			THROUGH	
	TOTAL	COASTWISE	INBOUND	OUTBOUND	UPBOUND	DOWNBOUND		
TOTAL-----	4,766,401	4,800	458,622	1,180,988	455,265	108,938	1,158,420	5,399,572
0102 BARLEY AND RYE-----	216,137			993				215,144
0103 CORN-----	2,580							2,580
0107 WHEAT-----	5,191,089		4,103	142,299			4,805	5,037,622

## Waterborne Commerce of the United States, 1982

COLUMBIA RIVER BETWEEN VANCOUVER, WASH.,  
AND THE DALLES, OREG.--CONTINUED

## FREIGHT TRAFFIC, 1982--CONTINUED

## DOMESTIC--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE		INTERNAL		THROUGH	
		SHIPMENTS	INBOUND	OUTBOUND	UPBOUND	DOWNBOUND	UPBOUND
0111 SOYBEANS	154						154
0122 HAY AND FODDER	5,201					18	5,183
0129 FIELD CROPS, NEC	813						813
0141 FRESH AND FROZEN VEGETABLES	6,504					450	6,054
0151 LIVE ANIMALS	71				71		
0161 ANIMALS AND PRODUCTS, NEC	951						951
0911 FRESH FISH, EXCEPT SHELLFISH	19,733		18,211	1,522			
0912 SHELLFISH, EXCEPT PREPARED	6,905		6,905				
1442 SAND, GRAVEL, CRUSHED ROCK	159,683		1,320	158,323			
1499 NONMETALLIC MINERALS, NEC	166						166
2015 ANIMAL BY-PRODUCTS, NEC	13,320						13,320
2034 VEGETABLES AND PREP, NEC	1,198					22	1,176
2042 ANIMAL FEEDS	255						255
2049 GRAIN MILL PRODUCTS, NEC	174						174
2062 MOLASSES	11,844					11,844	
2081 ALCOHOLIC BEVERAGES	76					76	
2411 LOGS	14,030		7,585				6,845
2412 RAFTED LOGS	1,016,249		293,020	161,575	453,735	101,787	
2413 FUEL WOOD, CHARCOAL, WASTES	11,132			8,060			3,072
2416 WOOD CHIPS, STAVES, HOLDINGS	455,131		976	425,751		7,080	21,324
2511 FURNITURE AND FIXTURES	5						5
2691 PULP AND PAPER PRODUCTS, NEC	309,172		14,750	258,867			576
2819 BASIC CHEMICALS AND PROD, NEC	5,498	1,200	4,298				
2821 PLASTIC MATERIALS	1,502						1,502
2871 NITROGENOUS CHEM FERTILIZERS	48,086	1,700	16,132				19,579
2891 MISCELLANEOUS CHEMICAL PROD	69						69
2911 GASOLINE	541,361		2,304				511,463
2912 JET FUEL	16,909						16,949
2913 DISTILLATE FUEL OIL	507,610		6,707				496,043
2915 RESIDUAL FUEL OIL	185,974		107,627				78,347
2918 ASPHALT, TAR, AND PITCHES	4,386						4,386
3011 RUBBER AND MISC PLASTIC PROD	107						107
3211 GLASS AND GLASS PRODUCTS	38						34
3271 LIME	1,029						1,029
3411 FABRICATED METAL PRODUCTS	46						46
3511 MACHINERY, EXCEPT ELECTRICAL	1,601	1,500		6			93
4119 EMPTY CONTAINERS	9,208						8,317
TOTAL TON-MILES	576,066,966.						891

COLUMBIA RIVER ABOVE THE DALLES DAM, WASH., AND OREG. TO  
MCNARY LOCK AND DAM, OREG. AND WASH.

SECTION INCLUDED: COLUMBIA RIVER BETWEEN THE DALLES DAM AND MCNARY LOCK AND DAM, A DISTANCE OF ABOUT 91 MILES, CONTROLLING DEPTHS WITHIN THE DALLES AND JOHN DAY POOLS, 14 FEET, PROJECT DEPTH 14 FEET AT ADOPTED LOW WATER.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1973	3,139,645	1978	6,118,003
1976	3,164,160	1979	6,442,713
1975	3,731,101	1980	7,725,206
1976	5,260,069	1981	8,187,034
1977	4,065,268	1982	7,388,699

## FREIGHT TRAFFIC, 1982

## DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	INTERNAL		THROUGH	
		INBOUND	OUTBOUND	UPBOUND	DOWNBOUND
TOTAL	7,388,699	708,797	547,812	1,158,420	4,843,670
0102 BARLEY AND RYE	215,190		20,231		194,913
0103 CORN	2,580		1,977		603
0107 WHEAT	5,047,789		565,584	6,465	4,475,320
0111 SOYBEANS	154				154
0122 HAY AND FODDER	5,201			18	5,183
0129 FIELD CROPS, NEC	813				813
0141 FRESH AND FROZEN VEGETABLES	6,504			450	6,054
0161 ANIMALS AND PRODUCTS, NEC	951				951
1442 SAND, GRAVEL, CRUSHED ROCK	1,320				1,320
1499 NONMETALLIC MINERALS, NEC	166				166
2015 ANIMAL BY-PRODUCTS, NEC	13,320				13,320
2034 VEGETABLES AND PREP, NEC	1,198			22	1,176
2042 ANIMAL FEEDS	255				255
2049 GRAIN MILL PRODUCTS, NEC	174				174
2062 MOLASSES	11,844			11,844	
2081 ALCOHOLIC BEVERAGES	76			76	
2411 LOGS	21,227	6,797			14,430
2412 RAFTED LOGS	15,896				15,896
2413 FUEL WOOD, CHARCOAL, WASTES	3,072				3,072

**PORTLAND, OR, DISTRICT**

COLUMBIA RIVER ABOVE THE DALLES DAM, WASH., AND OREG. TO  
MCNARY LOCK AND DAM, OREG., AND ASHES,--CONTINUED

53

FREIGHT TRAFFIC, 1982--CONTINUED

DOMESTIC--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	INTERNAL		THROUGH	
		INBOUND	OUTBOUND	UPBOUND	DOWNBOUND
2416 WOOD CHIPS, STAVES, HOLDINGS-----	21,324				21,324
2511 FURNITURE AND FIXTURES-----	5			5	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	35,549			576	34,973
2821 PLASTIC MATERIALS-----	1,502			1,502	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	40,393			19,379	21,014
2891 MISCELLANEOUS CHEMICAL PROD-----	61			69	-----
2911 GASOLINE-----	530,057			511,663	27,594
2912 JET FUEL-----	16,940			16,049	-----
2914 DISTILLATE FUEL OIL-----	500,903			496,003	4,060
2915 RESIDUAL FUEL OIL-----	78,347			78,347	-----
2918 ASPHALT, TAR, AND PITCHES-----	4,386			4,386	-----
3011 RUBBER AND MISC PLASTIC PHOD-----	107			107	-----
3211 GLASS AND GLASS PRODUCTS-----	34			34	-----
3271 LIME-----	1,029			1,029	-----
3811 FABRICATED METAL PRODUCTS-----	46			46	-----
3811 MACHINERY, EXCEPT ELECTRICAL-----	1			93	-----
4020 WASTE AND SCRAP, NEC-----	792,000	792,000			-----
4119 EMPTY CONTAINERS-----	9,200			9,317	891
TOTAL TON-MILES.	677,259,062.				

PORT OF PORTLAND, OREG.

SECTION INCLUDED: (STATISTICS FOR THAT SECTION OF PORTLAND HARBOR BELOW ROSS ISLAND BRIDGE ARE ALSO INCLUDED IN STATISTICS FOR COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG., AND STATISTICS FOR SECTION ABOVE ROSS ISLAND BRIDGE ARE ALSO INCLUDED IN STATISTICS FOR WILLAMETTE RIVER ABOVE PORTLAND AND YAMHILL RIVER, OREG.) CONTROLLING DEPTH: 30 FEET FROM MOUTH TO BROADWAY BRIDGES; 20 FEET AT LOW WATER ABOVE ROSS ISLAND BRIDGE TO LAKE OSWEGO; 9 FEET TO OREGON CITY. PROJECT DEPTH: 40 FEET AT LOW WATER BELOW BROADWAY BRIDGES; 30 FEET FROM BROADWAY BRIDGE TO FOOT OF ROSS ISLAND, MAINTAINED BY PORT OF PORTLAND; 8 FEET AT LOW WATER ABOVE FOOT OF ROSS ISLAND.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1973-----	19,596,615	402,428	20,077,043	207	1978-----	25,905,104	666,239	26,573,343	-----
1974-----	19,544,836	1,226,040	20,770,885	573	1979-----	26,327,795	816,066	29,146,461	10,610
1975-----	18,605,069	995,397	19,600,464	743	1980-----	26,633,335	680,724	29,314,059	6,178
1976-----	20,337,715	1,154,798	21,492,513	298	1981-----	27,233,073	391,656	27,629,729	5,790
1977-----	20,577,249	823,013	21,400,262	156	1982-----	29,661,713	487,565	25,129,278	474

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL		
		COASTWISE		INTERNAL	SHIPPMENTS			
		IMPORTS	EXPORTS	RECEIPTS	SHIPPMENTS			
TOTAL-----	25,129,278	1,849,386	11,199,918	3,804,547	286,158	5,330,309	2,189,664	869,356
0101 COTTON, RAPE-----	369		369					
0102 BARLEY AND RYE-----	909,635		757,426		192,209			
0103 CORN-----	1,807		1,607					
0104 OATS-----	326		326					
0106 BORGHUM GRAINS-----	47,206		47,206					
0107 WHEAT-----	11,404,521		8,169,262					
0111 SOYBEANS-----	54,101		54,101					
0119 OILSEEDS, NEC-----	68	15	63					
0121 TOBACCO, LEAF-----	767	767						
0129 FIELD CROPS, NEC-----	15,094	109	14,716				269	
0131 FRESH FRUIT-----	2,416		1,802	142	612			
0132 BANANAS AND PLANTAINS-----	11	11						
0133 COFFEE-----	1,127	1,127						
0141 FRESH AND FROZEN VEGETABLES-----	42,029	182	36,815		2,516	2,516		
0151 LIVE ANIMALS-----	264		264					
0161 ANIMALS AND PRODUCTS, NEC-----	2,426		2,019			545		
0191 MISCELLANEOUS FARM PRODUCTS-----	204	150	26	26				
0201 CRUDE RUBBER AND ALLIED GUMS-----	2,365	2,362	3					
0261 FOREST PRODUCTS, NEC-----	209	68	74		63			
0911 FRESH FISH, EXCEPT SHELLFISH-----	4,253	119	3,977			157		
0912 SHELLFISH, EXCEPT PREPARED-----	414	150	256					
1051 ALUMINUM ORES, CONCENTRATES-----	441,156	441,143	13					
1061 MANGANESE ORES, CONCENTRATES-----	57		57					
1061 NONFERROUS ORES, CONCENTRATES-----	10,269	9,972	278		19			
1101 COAL AND LIGNITE-----	4,508	4,498	10					
1311 CRUDE PETROLEUM-----	224,860	17,165		211,695				
1411 LIMESTONE-----	31,126	37,307	23				798	
1412 BUILDING STONE, UNWORKED-----	153		153					
1462 SAND, GRAVEL, CRUSHED ROCK-----	1,401,086	136,866		3,805		914,012	121,000	225,400
1451 CLAY-----	224,298	149	207,800					16,309
1491 SALT-----	170,504	170,504						
1499 NONMETALLIC MINERALS, NEC-----	26,909	1,244	23,158		2,507			
1911 DORDANCE AND ACCESSORIES-----	41		41					
2611 MEAT, FRESH, CHILLED, FROZEN-----	5,714	26	5,665	3	20			

## Waterborne Commerce of the United States, 1982

PORT OF PORTLAND, OREG.--CONTINUED

FREIGHT TRAFFIC, 1982--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
2012 MEAT AND PRODUCTS, NEC	51		51					
2014 TALLOW, ANIMAL FATS AND OILS	4,493		4,493					
2015 ANIMAL BY-PRODUCTS, NEC	39,177	22	37,715				1,440	
2021 DAIRY PRODUCTS, NEC	424	353			71			
2022 DRIED MILK AND CREAM	3,252	1	3,251					
2031 FISH AND SHELLFISH, PREPARED	3,258	1,770	1,468					
2034 VEGETABLES AND POOP, NEC	56,610	4,181	51,931	231	267			
2039 PREP FRUIT AND VEG JUICE, NEC	15,431	6,496	6,254	2,651	30			
2041 WHEAT FLOUR AND SEMOLINA	6,734		6,734					
2042 ANIMAL FEEDS	18,753		17,546		1,022	185		
2049 GRAIN MILL PRODUCTS, NEC	17,181	66	6,220					10,891
2062 MOLASSES	51,182	4,885		7,155		315	27,298	11,844
2081 ALCOMHOLIC BEVERAGES	6,367	4,402	1,650					
2091 VEGETABLE OILS, MAHS, SHORT	70,009	69,520	445		40			
2094 GROCERIES	38				1	37		
2099 MISCELLANEOUS FOOD PRODUCTS	22,244	548	21,504	14	175			
2111 TOBACCO MANUFACTURES	5	5						
2211 RASIN TEXTILE PRODUCTS	6,766	6,583	183					
2311 APPAREL	1,933	1,895	38					
2411 LOGS	285,240		279,691		136	5,413		
2412 RAFTED LOGS	487,565		236		269	355,299	36,776	95,490
2413 FUEL WOOD, CHARCOAL, WASTES	605		1,445			300	100	
2414 TIMBER, POSTS, POLES, PILING	2,507						758	4
2416 WOOD CHIPS, STAVES, HOLDINGS	735,241	1,660	733,581					
2421 LUMBER	231,675	1,696	179,115	106	59,745	13		
2431 VENEER, PLYWOOD, WORKED WOOD	61,458	6,931	32,317		10,442	11,768		
2491 WOOD MANUFACTURES, NEC	12,555	2,030	5,284		5,261			
2511 FURNITURE AND FIXTURES	1,507	1,004	279	100	124			
2611 PULP	4,726	67	4,659					
2631 PAPER AND PAPERBOARD	159,073	21,758	135,140			2,175		
2691 PULP AND PAPER PRODUCTS, NEC	618,420	29	86			2,669	590,929	24,707
2711 PRINTED MATTER	322	258	64					
2810 SODIUM HYDROXIDE	41,500			12,000	29,500			
2811 CRUDE TAR, OIL, GAS PRODUCTS	9,497			9,897				
2812 DYES, PIGMENT, TANNING MATS	21			1	20			
2816 RADIOACTIVE MATERIALS, WASTES	6		6					
2821 PLASTIC MATERIALS	350,146	17,939	53,745	267,873	8,703			1,786
2822 SYNTHETIC RUBBER	1,523	546	470		107			
2823 SYNTHETIC (MAN-MADE) FIBERS	3		3					
2831 DRUGS	621	603	18					
2861 SOAP	78	16	62					
2851 PAINTS	224	162	62					
2861 GUM AND WOOD CHEMICALS	499	279	220					
2871 NITROGENOUS CHEM FERTILIZERS	20	19	1					
2873 PHOSPHATIC CHEM FERTILIZERS	212,161	7,496		136,524	56,316	4,488	7,337	
2876 INSECTICIDES, DISINFECTANTS	60		60					
2891 MISCELLANEOUS CHEMICAL PROD	325	202	105			18		
2911 GASOLINE	25,128	207	458	12,488	11,906		69	
2912 JET FUEL	1,139,997	93,360	41	454,340		34,212	521,204	32,340
2913 KEROSENE	73,781				56,032		16,949	
2914 DISTILLATE FUEL OIL	854				854			
2915 RESIDUAL FUEL OIL	1,285,374	5,026	22,735	637,980	67,353	13,199	508,261	30,820
2916 LUBRICATING OILS AND GREASES	2,717,517	33,532		1,452,256	12,050	1,460	694,600	323,611
2917 NAPHTHA, PETROLEUM SOLVENTS	62,565		155	62,390				
2918 ASPHALT, TAR, AND PITCHES	9,056			1,032	8,124			
2920 COKE, PETROLEUM COKE	105,267	34,926	2	66,368	1,585		4,386	
2951 ASPHALT BUILDING MATERIALS	74,253	41,137	37,116					
2991 PETROLIFUM AND COAL PROD, NEC	288							
3011 RUBBER AND MISC PLASTIC PROD	3,697	42						3,655
3111 LEATHER AND LEATHER PRODUCTS	8,971	7,942	293	7	729			
3211 GLASS AND GLASS PRODUCTS	6,448	6,187	261					
3241 BUILDING CEMENT	975	840	118					
3251 STRUCTURAL CLAY PRODUCTS	5,503		74	5,408	61			
3271 LIME	437	295	13		129			
3281 CUT STONE AND STONE PRODUCTS	1,029						1,029	
3291 MISC NONMETALLIC MINERAL PROD	73	73						
3312 SLAG	4,502	1,990	771	3,051	1,015		1,675	
3314 IRON AND STEEL PRIMARY FORMS	314				314			
3315 IRON, STEEL SHAPES, EXC SHEET	79	13	6		60			
3316 IRON AND STEEL PLATES, SHEETS	189,475	187,358	25		577		1,915	
3317 IRON AND STEEL PIPE AND TUBE	24,173	43,776	17		380			
3318 FERROALLOYS	51,247	50,970	212		65			
3319 IRON AND STEEL PRODUCTS, NFC	1,559	1,397	162					
3321 NONFERROUS METALS, NEC	2,480	2,390	90					
3322 COPPER ALLOYS, UNWORKED	620	699	50		71			
3323 LEAD AND ZINC, UNWORKED	493	384	109					
3324 ALUMINUM AND ALLOYS, UNWORKED	3,998	622	3,376					
3324 ALUMINUM AND ALLOYS, UNWORKED	9,349	62	9,287					
3411 FABRICATED METAL PRODUCTS	30,681	26,100	1,783		2,818		20	
3511 MACHINERY, EXCEPT ELECTRICAL	26,976	21,262	5,429	6	142		37	100
3611 ELECTRICAL MACH AND EQUIP	6,702	5,624	876		202			
3711 MOTOR VEHICLES, PARTS, EQUIP	294,386	291,919	1,689	182	596			
3721 AIRCRAFT AND PARTS	3		3					
3731 SHIPS AND BOATS	71	69	2					
3791 MISC TRANSPORTATION EQUIPMENT	133	195	93	2	43			
3811 INSTR, TIME, PHOTO, OPT GOODS	1,010	900	110					
3911 MISC MANUFACTURED PRODUCTS	1,801	899	842	13	47			
4011 IRON AND STEEL SCRAP	170,356	161	170,034	141				
4012 NONFERROUS METAL SCRAP	15,639		15,639					
4022 TEXTILE WASTE, SCRAP, SHEEP	53	40	13					
4028 PAPER WASTE AND SCRAPS	13,000		13,000					
4029 WASTE AND SCRAPS, NEC	139,980						139,980	
4112 COMMODITIES, NEC	4,551	501	61	114	3,835			
4119 EMPTY CONTAINERS	901			58		19	824	
9999 DEPARTMENT OF DEFENSE AND SCI	810			810				

**PORTLAND, OR, DISTRICT**

55

'VILLAMETTE RIVER ABOVE PORTLAND AND YAMHILL RIVER, OREG.

SECTION INCLUDED: WILLAMETTE RIVER FROM PORTLAND TO MARYSVILLE, OREG., A DISTANCE OF 159 MILES, AND YAMHILL RIVER FROM MOUTH TO MILE 4.0, CONTROLLING DEPTHS: 9 FEET FROM PORTLAND TO OREGON CITY; 3 FEET TO CORVALLIS; 4 FEET ON YAMHILL RIVER FROM MOUTH TO MILE 4.0. PROJECT DEPTHS: WILLAMETTE RIVER, 8 FEET FROM PORTLAND TO OREGON CITY; 6 FEET FROM OREGON CITY TO MOUTH OF SANTIAM RIVER; 5 FEET FROM MOUTH OF SANTIAM RIVER TO ALBANY; 2.5 FEET TO 3.5 FEET FROM ALBANY TO CORVALLIS; NO DEPTHS PRESCRIBED FROM CORVALLIS TO MARYSVILLE; YAMHILL RIVER, 4 FEET FROM MOUTH TO MILE 4.0.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973-----	4,223,011	188,284	4,411,295	1978-----	5,400,838	359,801	5,740,725
1974-----	4,853,230	1,132,764	5,985,994	1979-----	4,675,295	524,337	5,099,732
1975-----	4,446,336	551,071	4,996,407	1980-----	5,002,568	404,274	5,406,842
1976-----	5,031,004	684,458	5,675,462	1981-----	3,577,405	298,997	3,876,402
1977-----	4,879,152	307,192	5,186,344	1982-----	2,668,937	398,176	2,863,113

\* PASSENGERS--0,497.

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC INTERNAL	
		IMPORTS	INBOUND	OUTBOUND	UPBOUND
TOTAL-----	2,863,113	12,655	533,240	649,729	764,137
1411 LIMESTONE-----	13,453	12,655	794	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	2,082,340	217,619	435,212	705,450	723,659
1451 CLAY-----	16,309	16,309	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	10,891	10,891	-----	-----	-----
2411 LOGS-----	1,100	1,100	-----	-----	-----
2412 RAFTED LOGS-----	398,176	56,304	131,600	50,012	160,160
2414 TIMBER, POSTS, POLES, PILING-----	500	500	-----	-----	-----
2416 WOOD CHIPS, STAVES, HOLDINGS-----	8,766	-----	8,746	-----	-----
2611 PULP-----	24,400	-----	-----	5,075	19,325
2631 PAPER AND PAPERBOARD-----	200	-----	-----	100	100
2691 PULP AND PAPER PRODUCTS, NEC-----	155,686	81,515	74,171	-----	-----
2915 RESIDUAL FUEL OIL-----	21,112	21,112	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	200	-----	-----	100	100
4029 WASTE AND SCRAP, NEC-----	130,000	127,000	-----	3,000	-----
TOTAL TON-MILES,	14,697,886.	-----	-----	-----	-----

COQUILLE RIVER, OREG.

SECTION INCLUDED: FROM SEA TO COQUILLE, A DISTANCE OF 28 MILES. CONTROLLING DEPTHS: 13 FEET TO ONE MILE ABOVE OLD LIGHT HOUSE THEN SWAGGING TO COQUILLE. PROJECT DEPTH: 13 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973-----	106,884	-----	106,884	1978-----	44,118	-----	44,118
1974-----	73,170	-----	73,170	1979-----	35,770	-----	35,770
1975-----	97,820	-----	97,820	1980-----	17,013	-----	17,013
1976-----	74,161	-----	74,161	1981-----	16,896	-----	16,896
1977-----	66,008	-----	66,008	1982-----	252,920	-----	252,920

FREIGHT TRAFFIC, 1982

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE		INTERNAL	
		SHIPMENTS	INBOUND	OUTBOUND	-----
TOTAL-----	252,920	12,068	52	240,800	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	52	-----	52	-----	-----
2421 LUMBER-----	17,068	12,068	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	240,800	-----	-----	240,800	-----
TOTAL TON-MILES,	253,028.	-----	-----	-----	-----

*Waterborne Commerce of the United States, 1982*

COOS RAY, OREG.

SECTION INCLUDED: FROM SEA TO MILLINGTON, A DISTANCE OF 17 MILES. (SAME SECTION AND STATISTICS APPLY TO PORT OF COOS BAY,) CONTROLLING DEPTH: 45 FEET IN ENTRANCE CHANNEL; 30 FEET IN INNER CHANNEL TO MILE 15; 20 FEET IN Isthmus Slough To MILLINGTON. PROJECT DEPTHS: 65 FEET ON BAR AND 35 FEET FROM ENTRANCE TO MILE 15; TURNING RADINS OF SAME DEPTH OPPOSITE COALBANK SLOUGH AND AT THE CITY OF NORTH BEND; ANCHORAGE BASINS 27 FEET AT MILE 3.5 AND NEAR MILE 7.5 A CHANNEL; 22 FEET DEEP FROM SMITH'S HILL (MILE 15) TO MILLINGTON; MOORING BASIN FOR SMALL BOATS AT CHARLESTON, WITH A CONNECTING CHANNEL 10 FEET DEEP TO DEEP WATER IN COOS RAY.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973-----	5,773,331	1,057,377	7,730,708	1978-----	5,872,721	1,191,570	7,064,291
1974-----	6,409,025	1,133,806	7,632,831	1979-----	5,905,174	1,145,699	7,050,873
1975-----	4,917,396	1,458,731	6,376,127	1980-----	5,517,082	1,286,884	6,803,966
1976-----	5,609,089	1,506,996	7,116,085	1981-----	5,177,782	1,602,201	5,779,983
1977-----	6,326,186	1,273,235	7,599,421	1982-----	5,515,440	2,245,946	6,781,386

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	FOREIGN			DOMESTIC			
	TOTAL	IMPORTS	EXPORTS	COASTWISE	INTERNAL	SHIPMENTS	LOCAL
TOTAL-----	6,781,386	436	3,495,264	250,653	50,527	1,078,960	291,200
0120 FIELD CROPS, NEC-----	2,964	7	2,957	-----	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	9,826	7	-----	-----	-----	9,819	-----
0912 SHELLFISH, EXCEPT PREPARED-----	4,541	-----	-----	-----	-----	4,541	-----
1402 SAND, GRAVEL, CRUSHED ROCK-----	42,825	-----	-----	42,825	-----	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	38	-----	38	-----	-----	-----	-----
2034 VEGETABLES AND PREP., NEC-----	20	-----	20	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	92	92	-----	-----	-----	-----	-----
2411 LOGS-----	802,886	-----	802,886	-----	-----	-----	-----
2412 RAFTED LOGS-----	2,265,946	-----	-----	-----	-----	1,956,600	309,346
2413 FUEL WOOD, CHARCOAL, RAFTES-----	30,646	-----	30,646	-----	-----	-----	-----
2414 TIMBER, POSTS, POLES, PILING-----	235	-----	235	-----	-----	-----	-----
2416 WOOD CHIPS, STAVES, HOLDINGS-----	2,683,188	-----	2,683,188	-----	-----	-----	-----
2421 LUMBER-----	349,109	-----	298,237	-----	49,472	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	73,886	-----	73,554	-----	292	-----	-----
2591 WOOD MANUFACTURES, NEC-----	102	-----	102	-----	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	377	-----	14	-----	363	-----	-----
2611 PULP-----	1,111	-----	1,111	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	741	-----	741	-----	-----	-----	-----
2023 SYNTHETIC (MAN-MADE) FIBERS-----	20	24	-----	-----	-----	-----	-----
2091 MISCELLANEOUS CHEMICAL PROD-----	73	-----	73	-----	-----	-----	-----
2911 GASOLINE-----	127,204	-----	127,204	-----	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	89,624	-----	89,624	-----	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	20	20	-----	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	12	12	-----	-----	-----	-----	-----
3401 FABRICATED METAL PRODUCTS-----	52	1	51	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	2	2	-----	-----	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	20	-----	20	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	4	2	2	-----	-----	-----	-----
4012 NONFERROUS METAL SCRAP-----	389	-----	389	-----	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	291,200	-----	-----	-----	291,200	-----	-----
4112 COMMODITIES, NEC-----	269	269	-----	-----	-----	-----	-----
TOTAL TON-MILES, 80,186,255.							

COOS AND MILLICOMA RIVERS, OREG.

SECTION INCLUDED: MOUTH OF COOS RIVER TO ALLEGANY ON MILLICOMA RIVER (NORTH FORK), MILE 13.8 AND TO MILE 14 ON SOUTH FORK, CONTROLLING AND PROJECT DEPTHS: 5 FEET FROM MOUTH OF COOS RIVER TO ALLEGANY ON MILLICOMA RIVER AND DELWOOD ON SOUTH FORKS THENCE 3 FEET TO MILE 16.7 ON SOUTH FORK.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1973-----	1,085,170	1978-----	2,312,221
1974-----	304,051	1979-----	1,413,070
1975-----	1,702,321	1980-----	1,530,746
1976-----	1,674,377	1981-----	1,457,784
1977-----	1,829,033	1982-----	1,956,600

FREIGHT TRAFFIC, 1982

DOMESTIC

(SHORT TONS)

COMMODITY	INTERNAL
2412 RAFTED LOGS-----	1,956,600
TOTAL TON-MILES, 16,791,600.	

**PORLAND, OR, DISTRICT**

57

SECTION INCLUDED: ENTRANCE TO REEDSPORT, A DISTANCE OF ABOUT 12 MILES. (SAME SECTION AND STATISTICS APPLY TO PORT OF UMPQUA.) CONTROLLING DEPTHS: 25 FEET ON THE HAR, 20 FEET FROM ENTRANCE TO MILE 3, 10 FEET MILE 3 TO 4, 10 FEET MILE 4 TO 12 AND 22 FEET IN TURNING BASIN. PROJECT DEPTHS: ENTRANCE 26 FEET AND 22 FEET FROM MOUTH TO REEDSPORT WITH A TURNING BASIN AT REEDSPORT; A SHALLOW CHANNEL AND MOORING AND TURNING BASIN 12 FEET DEEP AT WINCHESTER BAY; A CHANNEL 22 FEET DEEP WITH TURNING BASIN AT GARDNER.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973-----	468,762	139,304	608,066	1978-----	586,341	19,269	605,610
1974-----	604,448	237,600	841,048	1979-----	620,595	219	620,814
1975-----	508,374	20,500	526,872	1980-----	969,644	40,662	1,010,646
1976-----	381,896	16,415	398,511	1981-----	340,900	35,856	376,356
1977-----	680,721	68,839	749,560	1982-----	665,567	-----	665,567

FREIGHT TRAFFIC, 1982

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE		INTERNAL	
		RECEIPTS	SHIPMENTS	INBOUND	OUTBOUND
TOTAL-----	665,567	18,900	61,402	1,360	347,073
0911 FRESH FISH, EXCEPT SHELLFISH-----	786	-----	786	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	574	-----	574	-----	-----
1402 SAND, GRAVEL, CRUSHED ROCK-----	287,030	42,825	-----	6,273	236,832
2421 LUMBER-----	18,577	14,577	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	18,900	18,900	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	338,800	-----	-----	338,800	-----
TOTAL TON-MILES,	8,009,371.	-----	-----	-----	-----

SIUSLAW RIVER, OREG.

SECTION INCLUDED: FROM ENTRANCE TO MILE POINT 16.5, CONTROLLING DEPTHS: 14 FEET FROM ENTRANCE TO MILE 2, 13 FEET FROM MILE 2 TO FLORENCE, AND 8 FEET FROM FLORENCE TO MILE POINT 16.5. PROJECT DEPTHS: 14 FEET FROM ENTRANCE CHANNEL TO A POINT 1,500 FEET INSIDE THE OUTER END OF EXISTING NORTH JETTY, THENCE 16 FEET TO FLORENCE, THENCE 16 FEET TO FLORENCE, THENCE 12 FEET TO CUSHMAN, AND FROM CUSHMAN, MILE 8.5 TO MILE 16.5 12 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973-----	85,347	31,830	117,177	1978-----	52,236	114,292	146,528
1974-----	43,760	180,236	223,996	1979-----	34,397	109,396	143,793
1975-----	40,276	91,865	132,141	1980-----	11,012	93,785	104,797
1976-----	49,566	79,591	129,159	1981-----	6,315	79,624	85,939
1977-----	56,077	83,133	139,210	1982-----	408,908	19,009	427,917

FREIGHT TRAFFIC, 1982

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	INTERNAL			
		INBOUND	OUTBOUND	UPBOUND	DOWNBOUND
TOTAL-----	427,917	104	408,800	13,000	6,009
0911 FRESH FISH, EXCEPT SHELLFISH-----	96	96	-----	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	12	12	-----	-----	-----
2412 RAFTED LOGS-----	19,009	-----	-----	13,000	6,009
4029 WASTE AND SCRAP, NEC-----	408,800	-----	408,800	-----	-----
TOTAL TON-MILES,	145,405.	-----	-----	-----	-----

*Waterborne Commerce of the United States, 1982*

YACQUINA BAY AND HARBOR, OREG.

SECTION INCLUDED: ENTRANCE AND HARBOR TO TOWN OF YACQUINA, OREG., A DISTANCE OF ABOUT 4.5 MILES. CONTROLLING DEPTHS: 37 FEET AT ENTRANCE, THENCE 20 FEET TO AND IN THE TURNING BASIN. PROJECT DEPTHS: 40 FEET THROUGH ENTRANCE CHANNEL, 30 FEET FROM END OF ENTRANCE CHANNEL TO MCLEAN POINT, 30 FEET IN TURNING BASIN, AND 14 FEET FROM TURNING BASIN TO TOWN OF YACQUINA.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973-----	206,504	-----	206,504	1978-----	263,113	-----	263,113
1974-----	219,330	171,146	390,480	1979-----	156,792	-----	156,792
1975-----	287,686	-----	287,686	1980-----	126,513	-----	126,513
1976-----	247,600	-----	247,600	1981-----	69,007	-----	69,007
1977-----	165,176	-----	165,176	1982-----	404,336	-----	404,336

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN EXPORTS	DOMESTIC	
			COASTWISE THROUGH DOWNSTAIRS	INTERNAL INBOUND OUTBOUND
TOTAL-----	404,336	9,988	20,594	23,354 350,400
0911 FRESH FISH, EXCEPT SHELLFISH-----	18,604	-----	-----	18,604 -----
0912 SHELLFISH, EXCEPT PREPARED-----	4,750	-----	-----	4,750 -----
2411 LOGS-----	9,988	9,988	-----	-----
2421 LUMBER-----	20,594	-----	20,594	-----
4029 WASTE AND SCRAP, NEC-----	350,400	-----	-----	350,400
TOTAL TON-MILES, 836,814.				

## PORTLAND, OR, DISTRICT

59

## OTHER HARBOURS AND WATERWAYS

WATERWAY OR WATERWAY PROJECT	COMMODITY	TONS	TOTAL TONS MILES	PASSENGERS
ALSEA RIVER, OREG.	NO COMMERCE REPORTED			
CHESTER RIVER, OREG.	0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED----- 2421 RAFTED LOGS----- 2431 WOOD, PLYWOOD, CRUSHED WOOD----- 4029 WASTE AND SCRAP, NFC-----	2,503 1,254 26,520 4,967 95,200		
	TOTAL-----	130,536	130,536	
CHILICOOT CHANNEL, OASH.	0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED-----	2,033 628		
	TOTAL-----	2,661	2,661	
CLATSOPIANA RIVER, OREG.	NO COMMERCE REPORTED			
COLUMBIA RIVER AT HAWKS BAY, WASH.	0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED-----	4,584 698		
	TOTAL-----	5,282	26,220	
COLUMBIA RIVER, OASH.	NO COMMERCE REPORTED			
COQUILLE RIVER, WASH.	0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED-----	601 107		
	TOTAL-----	708	3,540	
DEER RIVER, WASH.	1442 SAND, GRAVEL, CRUSHED ROCK----- 2412 RAFTED LOGS-----	2,530 180,140		
	TOTAL-----	182,670	677,711	
DERIDGE BAY, OREG.	0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED-----	111 71		
	TOTAL-----	182	182	
FLORENCE SLough, OASH.	2412 RAFTED LOGS-----	35,524	71,048	
GRAYS RIVER, WASH.	0911 FRESH FISH, EXCEPT SHELLFISH-----	38	384	
LAKE RIVER, WASH.	0107 WHEAT----- 0141 FRESH AND FROZEN VEGETABLES----- 0911 FRESH FISH, EXCEPT SHELLFISH----- 1442 SAND, GRAVEL, CRUSHED ROCK----- 2871 NITROGENOUS CHEM FERTILIZERS----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 3711 MOTOR VEHICLE, PARTS, EQUIP-----	410 2,225 104 300 175 600 110		
	TOTAL-----	4,224	4,324	
LENTS PTYER, OASH.	1442 SAND, GRAVEL, CRUSHED ROCK----- 2412 RAFTED LOGS-----	3,920 21,192		
	TOTAL-----	25,112	127,982	
PORT OF ST. HELENS, OREG.	1442 SAND, GRAVEL, CRUSHED ROCK----- 2412 RAFTED LOGS----- 2691 PULP AND PAPER PRODUCTS, NEC----- 2871 NITROGENOUS CHEM FERTILIZERS-----	3,920 25,437 1,066 10,414		
	TOTAL-----	40,461		
PORT OREGON, OREG.	0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED-----	252 337		
	TOTAL-----	589		
ROGUE RIVER, OREG.	0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED----- 4029 WASTE AND SCRAP, NFC----- 4112 COMMUNITIES, NFC-----	56 1 196,000 550		
	TOTAL-----	196,607	210,357	48,064
SKAMOKALA CREEK/HATCHET RIVER, WASH.	2412 RAFTED LOGS-----	1,012	1,012	
SKAMOKALA CREEK, WASH.	NO COMMERCE REPORTED			
SKIDROW CHANNEL, OREG.	2412 RAFTED LOGS----- 2413 FUEL WOOD, CHARCOAL, RASTES----- 2416 WOOD CHIPS, STAVES, HOLDINGS-----	27,103 3,519 16,094		
	TOTAL-----	46,716	57,602	
SUITZ RIVER, OREG.	1442 SAND, GRAVEL, CRUSHED ROCK-----	4,273	165,460	
TEELA HICK BAY AND BAR, OREG.	0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED-----	431 547		
	TOTAL-----	1,178	9,424	
WESTHORN SLough, OREG.	2411 LOGS----- 2412 RAFTED LOGS-----	4,093 4,215		
	TOTAL-----	14,298	14,298	18,373

*Waterborne Commerce of the United States, 1982*

## OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TONE MILES	PASSENGERS
PROJECT--CONTINUED				
YACOUTA RIVER, OREG.	2412 RAFTED LOGS----- 2421 LUMBER-----	8,641 ----- 20,590 -----		
	TOTAL-----	29,235	215,707	-----

# SEATTLE, WA, DISTRICT

61

## GRAYS HARBOR AND CHEHALIS RIVER, WASH.

SECTION INCLUDED: GRAYS HARBOR BAR CHANNEL AND CHEHALIS RIVER TO COSMOPLIS AND EXTENDING TO SIMPSON AVENUE BRIDGE ON THE HOQUAM RIVER AND THE SCHAFER HRS., WHARF AT MONTESANI ON THE CHEHALIS RIVER, CONTROLLING DEPTH: BAR CHANNEL, 37.4 FEET; 28.9 FEET FROM DEEP WATER IN LOWER HARBOR TO UPPER CROSS-OVER, 28.7 FEET FROM UPPER CROSS-OVER TO COU POINT, 28.8 FEET FROM COU POINT TO COSMOPLIS TURNING BASIN JUST DOWNSTREAM OF U.P.R.R. BRIDGE, 24.6 FEET; TURNING BASIN NEAR COSMOPLIS, 10.0 FEET, 4.7 FEET FROM COSMOPLIS TO MONTESANI BAY CITY CHANNEL, 9.9 FEET; WESTHAVEN CHANNEL, 15.1 FEET. PROJECT DEPTH: 30 FEET EXTENDING THROUGH THE BAR CHANNEL TO COSMOPLIS BAY 16 FEET TO MONTESANI BAY CITY CHANNEL, 14 FEET; WESTHAVEN CHANNEL, 16 FEET. ALL DEPTHS REFER TO MLLW.

### COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973-----	3,086,452	756,218	3,843,070	1978-----	3,081,953	-----	3,081,953
1974-----	2,519,763	975,599	3,495,352	1979-----	5,005,916	124,627	5,130,743
1975-----	2,567,524	19,659	2,587,183	1980-----	3,240,061	8,409	3,248,460
1976-----	3,020,261	118,365	3,142,626	1981-----	3,160,804	-----	3,160,804
1977-----	2,558,704	87,484	2,646,192	1982-----	3,267,640	4,905	3,272,635

\* PASSENGERS=68,830.

### FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			LOCAL
		IMPORTS	EXPORTS	COASTWISE	INTERNAL	SHIPMENTS	
<b>TOTAL</b>	<b>3,272,635</b>	<b>3,955</b>	<b>2,963,709</b>	<b>37,695</b>	<b>15,176</b>	<b>175,000</b>	<b>77,100</b>
0131 FRESH FRUITS-----	1	-----	1	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	118	-----	118	-----	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	8,541	0	-----	-----	8,532	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	1,649	-----	-----	-----	1,649	-----	-----
1402 SAND, GRAVEL, CRUSHED ROCK-----	77,100	-----	-----	-----	-----	-----	77,100
1495 NONMETALLIC MINERALS, NEC-----	49	-----	49	-----	-----	-----	-----
2411 LOGS-----	2,793,557	-----	2,793,557	-----	-----	-----	-----
2412 RAFTED LOGS-----	4,995	-----	4,995	-----	4,995	-----	-----
2414 TIMBER, POSTS, POLES, PILING-----	4,504	-----	4,504	-----	-----	-----	-----
2416 WOOD CHIPS, STAVES, HOLDINGS-----	53,500	-----	53,500	-----	-----	-----	-----
2421 LUMBER-----	140,406	-----	108,609	31,797	-----	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	144	-----	144	-----	-----	-----	-----
2611 PULP-----	3,090	-----	3,090	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	21	-----	21	-----	-----	-----	-----
2815 BASIC CHEMICALS AND PROD, NEC-----	1	-----	1	-----	-----	-----	-----
2861 GUM AND WOOD CHEMICALS-----	5,898	-----	5,898	-----	-----	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	1	-----	1	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	1,498	1,498	-----	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	1,855	1,855	-----	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	684	576	68	-----	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	17	17	-----	-----	-----	-----	-----
3731 SHIPS AND BOATS-----	5	-----	5	-----	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	175,000	-----	-----	-----	175,000	-----	-----
4112 COMMODITIES, NEC-----	1	-----	1	-----	-----	-----	-----
<b>TOTAL TON-MILES,</b>	<b>52,268,960</b>						

## PORT ANGELES HARBOR, WASH.

SECTION INCLUDED: ENTIRE HARBOR FROM RAYONIER, INC., WHARF WESTWARD. CONTROLLING DEPTH: UNLIMITED EXCEPT FOR 25 FEET NEAR RAYONIER, INC., WHARF. ALL DEPTHS REFER TO MLLW.

### COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973-----	2,348,684	570,097	2,918,785	1978-----	4,029,194	838,891	4,868,085
1974-----	2,116,200	473,419	2,989,619	1979-----	3,949,021	1,875,249	5,844,270
1975-----	2,196,701	529,412	2,726,513	1980-----	3,572,160	705,537	4,277,697
1976-----	3,050,214	191,254	3,241,468	1981-----	1,795,068	179,915	1,974,983
1977-----	2,854,709	428,223	3,283,012	1982-----	1,736,660	72,825	1,811,485

### FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	COASTWISE	INTERNAL	
<b>TOTAL</b>	<b>1,811,485</b>	<b>101,744</b>	<b>1,007,958</b>	<b>6,204</b>	<b>348,303</b>	<b>127,513</b>
0103 CORN-----	200	-----	200	-----	-----	-----
0106 SORGHUM GRAINS-----	18	-----	18	-----	-----	-----
0119 OILSEEDS, NEC-----	9	-----	9	-----	-----	-----
0124 FIELD CROPS, NEC-----	612	-----	612	-----	-----	-----

## Waterborne Commerce of the United States, 1982

PORT ANGELES HARBOR, WASH.--CONTINUED

FREIGHT TRAFFIC, 1982--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	COASTWISE	INTERIAL	
0131 FRESH FRUITS-----	5,173	-----	5,173	-----	-----	-----
0132 BANANAS AND PLANTAINS-----	3,196	-----	3,196	-----	-----	-----
0161 FRESH AND FROZEN VEGETABLES-----	7,166	-----	7,166	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	20	-----	20	-----	-----	-----
0191 MISCELLANEOUS FARM PRODUCTS-----	85	-----	85	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	2,567	159	1	-----	2,407	-----
0912 SHELLFISH, EXCEPT PREPARED-----	44	-----	61	-----	23	-----
1051 ALUMINUM ORES, CONCENTRATES-----	112,608	112,608	-----	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	1,000	1,000	-----	-----	-----	-----
1451 CLAY-----	151	-----	151	-----	-----	-----
2022 DRIED MILK AND CREAM-----	32	-----	32	-----	-----	-----
2034 VEGETABLES AND PREP., NEC-----	256	-----	256	-----	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	2,242	-----	2,242	-----	-----	-----
2042 ANIMAL FEEDS-----	10,754	-----	10,754	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	34	-----	34	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	125	-----	125	-----	-----	-----
2091 VEGETABLE OILS, MARG, SHORT-----	6	-----	6	-----	-----	-----
2094 MISCELLANEOUS FOOD PRODUCTS-----	320	-----	320	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	13	-----	13	-----	-----	-----
2311 APPAREL-----	7	7	-----	-----	-----	-----
2411 LOGS-----	870,563	-----	870,563	-----	-----	-----
2412 RAFTED LOGS-----	72,625	-----	72,625	-----	4,861	46,347
2413 FUEL WOOD, CHARCOAL, WASTES-----	9,303	3,612	-----	-----	5,691	-----
2414 TIMBER, POSTS, POLES, PILING-----	54	54	-----	-----	-----	-----
2416 WOOD CHIPS, STAVES, HOLDINGS-----	215,934	153,058	49,255	-----	-----	11,643
2421 LUMBER-----	15,943	19	15,924	-----	-----	1,978
2431 VENEER, PLYWOOD, WORKED WOOD-----	5,224	5,065	159	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	3,569	3,521	48	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	67	-----	67	-----	-----	-----
2611 PULP-----	93,941	18,642	5,541	-----	1,340	68,378
2631 PAPER AND PAPERBOARD, NEC-----	6,352	1,492	3,305	-----	810	1,145
2691 PULP AND PAPER PRODUCTS, NEC-----	63	-----	63	-----	-----	-----
2711 PRINTED MATTER-----	2	2	-----	-----	-----	-----
2810 SODIUM HYDROXIDE-----	30,246	-----	30,246	-----	-----	-----
2819 BASIC CHEMICALS AND PROD., NEC-----	458	-----	458	-----	-----	-----
2821 PLASTIC MATERIALS-----	10	-----	10	-----	-----	-----
2831 DRUGS-----	8	-----	8	-----	-----	-----
2841 SOAP-----	113	-----	113	-----	-----	-----
2851 PAINTS-----	25	-----	25	-----	-----	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	353	353	-----	-----	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	19	-----	19	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	8,151	-----	281	-----	7,870	-----
2911 GASOLINE-----	20,951	-----	107	-----	20,844	-----
2914 DISTILLATE FUEL OIL-----	68,591	-----	30,699	-----	57,892	-----
2915 RESIDUAL FUEL OIL-----	238,926	-----	6,296	-----	232,630	-----
2916 LUBRICATING OILS AND GREASES-----	59	-----	59	-----	49	-----
3011 RUBBER AND MISC PLASTIC PROD-----	19	-----	19	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	2	-----	2	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	1	1	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	2	-----	2	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	201	165	36	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	14	-----	14	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	157	133	28	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	39	-----	39	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	79	2	77	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	192	32	160	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	46	4	42	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	1,037	1,030	7	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	42	-----	42	-----	-----	-----
3811 INSTN, TIME, PHOTO, OPT GOODS-----	1	-----	1	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	63	18	45	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	52	-----	52	-----	-----	-----
4024 PAPER WASTE AND SCRAP-----	263	-----	263	-----	-----	-----
4112 COMMODITIES, NEC-----	17	7	10	-----	-----	-----

## PORT TOWNSEND HARBOR, WASH.

SECTION INCLUDED: POINT WILSON ON THE NORTH TO IRONDALE ON THE SOUTH. CONTROLLING DEPTH: CHANNEL FROM DEEP WATER TO BOAT BASIN, 8.9 FEET; OUTER PORTION OF ENTRANCE CHANNEL IN BOAT BASIN, 10.9 FEET; INNER PORTION OF ENTRANCE CHANNEL IN BOAT BASIN, 11.3 FEET. PROJECT DEPTHS: 10 AND 12 FEET MLLW IN THE INNER AND OUTER SECTIONS OF THE MOORING BASIN, RESPECTIVELY.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1973-----	1,335,122	11,911	1,347,033	160,084	1974-----	680,737	-----	680,737	200,734
1974-----	1,309,189	29,202	1,338,391	95,323	1975-----	534,041	-----	534,061	739,362
1975-----	1,089,728	17,160	1,106,897	137,957	1976-----	701,267	-----	701,247	254,672
1976-----	1,223,590	-----	1,223,590	163,994	1981-----	663,937	-----	643,937	296,302
1977-----	1,262,736	-----	1,262,736	180,530	1982-----	764,139	-----	748,139	488,286

**SEATTLE, WA, DISTRICT**  
PORT TOWNSEND HARBOR, WASH.--CONTINUED

63

ADDITIONAL TRAFFIC

YEAR	TONS	CAR FERRY-RAILROAD CARS			GENERAL FERRY		YEAR	TONS	CAR FERRY-RAILROAD CARS			GENERAL FERRY	
		EMPTY	LOADED	TOTAL	VEHICLES	PASSENGERS			EMPTY	LOADED	TOTAL	VEHICLES	PASSENGERS
1973-----	13,275	----	----	----	66,242	93,842	1978-----	---	----	----	----	150,466	200,734
1974-----	--	----	----	----	65,912	95,985	1979-----	---	----	----	----	455,443	739,362
1975-----	--	----	----	----	97,726	137,957	1980-----	---	----	----	----	200,784	250,672
1976-----	--	----	----	----	118,250	163,994	1981-----	---	----	----	----	216,952	296,362
1977-----	--	----	----	----	132,966	180,530	1982-----	---	----	----	----	202,248	286,266

\* CARGO REPORTED AS FREIGHT TRAFFIC.

\*\* NOT REPORTED.

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC INTERNAL		LOCAL	
		COASTWISE		RECEIPTS	SHIPMENTS		
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS		
TOTAL-----	764,139	276,184	32,684	8,267	307,001	142,061	1,848
0911 FRESH FISH, EXCEPT SHELLFISH-----	506	-----	-----	-----	506	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	273	-----	-----	-----	273	-----	-----
1121 COAL AND LIGNEITE-----	2,800	-----	-----	-----	2,800	-----	-----
1311 CRUDE PETROLEUM-----	107,962	107,962	-----	-----	-----	-----	-----
1491 SALT-----	160	-----	-----	-----	160	-----	-----
1492 SULPHUR, DRY-----	590	-----	-----	-----	590	-----	-----
2411 LOGS-----	973	-----	973	-----	-----	-----	-----
2413 FUEL WOOD, CHARCOAL, WASTES-----	68,502	36,820	-----	-----	31,682	-----	-----
2414 TIMBER, POSTS, POLES, PILING-----	40	-----	-----	-----	40	-----	-----
2416 WOOD CHIPS, STAVES, HOLDINGS-----	327,392	129,645	-----	-----	195,899	-----	1,848
2421 LUMBER-----	18,670	610	-----	-----	-----	18,660	-----
2491 WOOD MANUFACTURES, NEC-----	301	301	-----	-----	-----	-----	-----
2611 FUEL-----	57,964	-----	29,000	-----	28,960	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	1,551	-----	-----	-----	1,551	-----	-----
2631 PAPER AND PAPERBOARD-----	96,336	824	2,703	-----	92,405	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	2,408	-----	3	-----	2,405	-----	-----
2861 GUM AND WOOD CHEMICALS-----	45,282	-----	-----	-----	45,282	-----	-----
2911 GASOLINE-----	1,458	-----	-----	-----	1,458	-----	-----
2914 DISTILLATE FUEL OIL-----	1,801	-----	-----	-----	1,801	-----	-----
2915 RESIDUAL FUEL OIL-----	15,355	-----	-----	4,267	11,088	-----	-----
2916 LUBRICATING OILS AND GREASES-----	25	-----	-----	-----	25	-----	-----
2921 LIQUEFIED GASES-----	4,580	-----	-----	-----	4,580	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	28	-----	-----	-----	24	-----	-----
3401 FABRICATED METAL PRODUCTS-----	1,905	-----	16	-----	1,825	64	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	5,131	-----	-----	-----	4,740	387	-----
4112 COMMODITIES, NEC-----	2,130	2	-----	-----	1,909	225	-----

PORT GAMBLE HARBOR, WASH.

SECTION INCLUDED: ENTRANCE CHANNEL AND PORT GAMBLE HARBOR. CONTROLLING DEPTH: 26.0 FEET AT MLLW. PROJECT DEPTHS: 28 FEET AT MLLW.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973-----	388,477	183,049	571,526	1978-----	293,550	208,968	502,518
1974-----	329,588	166,310	495,867	1979-----	190,235	221,292	411,527
1975-----	339,041	165,455	482,490	1980-----	363,884	251,360	615,244
1976-----	432,122	108,831	540,953	1981-----	373,476	270,277	652,753
1977-----	418,610	162,402	581,012	1982-----	303,896	228,420	532,276

FREIGHT TRAFFIC, 1982

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE		INTERNAL		LOCAL
		SHIPMENTS	RECEIPTS	SHIPMENTS	RECEIPTS	
TOTAL-----	532,276	67,143	-----	159,526	305,607	-----
2812 RAFTED LOGS-----	228,420	-----	-----	158,126	70,294	-----
2813 FUEL WOOD, CHARCOAL, WASTES-----	30,659	-----	-----	-----	34,659	-----
2816 WOOD CHIPS, STAVES, HOLDINGS-----	198,792	-----	-----	-----	198,792	-----
2421 LUMFR-----	69,005	67,143	-----	-----	1,862	-----
3401 FABRICATED METAL PRODUCTS-----	1,600	-----	-----	1,400	-----	-----

*Waterborne Commerce of the United States, 1982*

HAMMERSLEY INLET, WASH.

SECTION INCLUDED: INLET CONNECTING PUGET SOUND WITH SHELTON HARBOR, A DISTANCE OF ABOUT 7 MILES. CONTROLLING DEPTH: 8.8 FEET. PROJECT DEPTH: 13 FEET. ALL DEPTHS REFER TO MLLW.

## COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973-----	277,255	700,475	1,067,930	1978-----	302,539	902,986	1,205,535
1974-----	336,380	770,083	1,106,472	1979-----	169,242	846,802	1,036,044
1975-----	317,730	707,924	1,115,654	1980-----	211,633	915,565	1,147,198
1976-----	335,494	97,951	433,445	1981-----	227,306	641,909	1,109,215
1977-----	338,474	735,303	1,073,781	1982-----	221,413	749,020	1,010,433

## FREIGHT TRAFFIC, 1982

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	INTERNAL		LOCAL
		INBOUND	OUTBOUND	
<b>TOTAL</b> -----	<b>1,010,433</b>	<b>40,368</b>	<b>300,906</b>	<b>570,159</b>
0911 FRESH FISH, EXCEPT SHELLFISH-----	532	532	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	617	617	-----	-----
2412 RAFTED LOGS-----	789,020	39,219	179,642	570,159
2416 WOOD CHIPS, STAVES, WOLDINGS-----	175,135	-----	175,135	-----
2421 LUMBER-----	14,603	-----	36,603	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	6,524	-----	8,526	-----

## OLYMPIA HARBOR, WASH.

SECTION INCLUDED: THAT PORTION OF BOUND INLET SOUTH AND WEST OF PRIEST POINT AND GENERALLY WITHIN THE CITY LIMITS OF LIMITS OF OLYMPIA. CONTROLLING DEPTH: 28.9 FEET IN OUTER CHANNEL, 26.4 FEET IN ENTRANCE CHANNEL AND 29.0 FEET IN TURNING BASIN. PROJECT DEPTH: 30 FEET. ALL DEPTHS REFER TO MLLW.

## COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973-----	545,981	403,606	989,587	1978-----	566,001	303,489	869,490
1974-----	363,490	452,636	1,216,135	1979-----	607,642	186,188	793,830
1975-----	320,201	138,646	459,047	1980-----	589,687	131,312	720,999
1976-----	119,800	80,755	200,155	1981-----	361,974	441,366	823,320
1977-----	406,594	89,864	536,458	1982-----	388,241	106,179	494,420

## FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHPPMENTS	
<b>TOTAL</b> -----	<b>494,420</b>	<b>3,027</b>	<b>327,650</b>	<b>87,017</b>	<b>74,359</b>	<b>2,367</b>
0911 FRESH FISH, EXCEPT SHELLFISH-----	286	-----	-----	286	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	1,023	-----	-----	1,023	-----	-----
2411 LOGS-----	322,800	-----	322,800	-----	-----	-----
2412 RAFTED LOGS-----	106,170	-----	-----	30,114	73,696	2,367
2413 FUEL WOOD, CHARCOAL, WASTES-----	100	-----	-----	100	-----	-----
2414 TIMBER, POSTS, POLES, PILING-----	360	-----	-----	360	-----	-----
2421 LUMBER-----	4,881	-----	4,881	-----	-----	-----
2911 GASOLINE-----	26,500	-----	-----	26,093	416	-----
2914 DISTILLATE FUEL OIL-----	12,316	-----	-----	12,071	245	-----
2915 RESIDUAL FUEL OIL-----	16,270	-----	-----	16,270	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	21	21	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	248	248	-----	-----	-----	-----
3318 FERROALLOYS-----	2,758	2,758	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	700	-----	-----	700	-----	-----

**SEATTLE, WA, DISTRICT**

TACOMA HARBOR, WASH.

65

SECTION INCLUDED: ALL OF COMMENCEMENT BAY AND TIDAL BAY EAST OF A LINE EXTENDING FROM BROWN POINT TO AND INCLUDING THE WHARVES OF THE TACOMA SHIPYARD, CONTROLLING DEPTHS: CITY WATERWAY, 26.4 TO 36.2 FEET; MULHOGS WATERWAY, 27.0 FEET; LEAST DEPTH IN TURNING BASIN 27.6 FEET; BLAIR (PORT INDUSTRIAL WATERWAY), 31.5 FEET; PROJECT DEPTHS: CITY WATERWAY, 29 TO 39 FEET; MULHOGS WATERWAY, 30 FEET; BLAIR (PORT INDUSTRIAL WATERWAY), 30 TO 35 FEET. ALL DEPTHS REFERRED TO MLLW.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1973-----	8,884,187	960,565	9,844,752	163,064	1978-----	12,388,337	695,617	13,083,954	179,265
1974-----	7,137,302	862,730	7,600,036	172,242	1979-----	14,280,941	911,604	15,192,550	184,909
1975-----	7,240,467	658,832	7,897,699	180,024	1980-----	15,479,448	1,242,662	17,142,216	175,592
1976-----	10,041,375	186,000	10,227,460	194,536	1981-----	14,196,541	976,263	15,170,744	193,906
1977-----	10,381,037	318,300	10,699,337	191,759	1982-----	12,148,742	1,078,657	13,226,939	432,550

ADDITIONAL TRAFFIC

YEAR	TONS	CAR FERRY- RAILROAD CARS			GENERAL FERRY			YEAR	TONS	CAR FERRY- RAILROAD CARS			GENERAL FERRY		
		EMPTY	LOADED	TOTAL	# VEHICLES	PASSENGERS				EMPTY	LOADED	TOTAL	# VEHICLES	PASSENGERS	
1973-----	6,650	-----	-----	-----	143,216	163,046	1978-----	-----	-----	-----	-----	-----	206,306	179,265	
1974-----	-----	-----	-----	-----	147,916	172,242	1979-----	-----	-----	-----	-----	-----	221,400	184,909	
1975-----	-----	-----	-----	-----	156,316	180,424	1980-----	-----	-----	-----	-----	-----	200,440	175,592	
1976-----	-----	-----	-----	-----	162,604	194,536	1981-----	-----	-----	-----	-----	-----	228,400	193,906	
1977-----	-----	-----	-----	-----	177,940	191,759	1982-----	-----	-----	-----	-----	-----	211,440	432,550	

\* INCLUDES AUTOMOBILES, TRUCKS, AND TRAILERS.  
\*\* CARGO REPORTED AS FREIGHT TRAFFIC.  
# NOT REPORTED.

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		INTERNAL		LOCAL	
		IMPORTS	EXPORTS	COASTWISE		SHIPMENTS			
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
TOTAL-----	13,246,939	2,246,179	5,736,728	499,747	795,840	2,295,496	1,030,570	642,280	
0101 COTTON, RAW-----	1,444	-----	1,444	-----	-----	-----	-----	-----	
0102 BARLEY AND RYE-----	5,566	-----	5,566	-----	-----	-----	-----	-----	
0103 CORN-----	894,670	-----	894,670	-----	-----	-----	-----	-----	
0104 OATS-----	21	-----	21	-----	-----	-----	-----	-----	
0105 RICE-----	294	299	-----	-----	-----	-----	-----	-----	
0106 BORGHUM GRAINS-----	379,648	-----	379,648	-----	-----	-----	-----	-----	
0107 WHEAT-----	597,078	79	596,995	-----	-----	-----	-----	-----	
0111 SOYBEANS-----	174,741	-----	174,741	-----	-----	-----	-----	-----	
0119 OILSEEDS, NEC-----	7,639	21	7,618	-----	-----	-----	-----	-----	
0121 TOBACCO, LEAF-----	670	670	-----	-----	-----	-----	-----	-----	
0122 HAY AND FORAGE-----	209	-----	209	-----	-----	-----	-----	-----	
0124 FIELD CROPS, NEC-----	4,186	466	3,720	-----	-----	-----	-----	-----	
0131 FRESH FRUITS-----	28,485	540	11,610	-----	16,531	-----	-----	-----	
0132 BANANAS AND PLANTAINS-----	1,972	-----	1,972	-----	1,972	-----	-----	-----	
0133 COFFEE-----	2,689	2,689	-----	-----	-----	-----	-----	-----	
0141 FRESH AND FROZEN VEGETABLES-----	77,225	263	60,136	-----	14,826	-----	-----	-----	
0161 ANIMALS AND PRODUCTS, NEC-----	2,532	137	28	47	2,300	-----	-----	-----	
0191 MISCELLANEOUS FARM PRODUCTS-----	633	-----	100	-----	533	-----	-----	-----	
0201 CRUDE RUBBER AND ALLIED GUMS-----	129,816	129,816	-----	-----	-----	-----	-----	-----	
0202 FOREST PRODUCTS, NEC-----	1,072	78	77	-----	917	-----	-----	-----	
0203 FRESH FISH, EXCEPT SHELLFISH-----	1,973	327	1,186	-----	35	425	-----	-----	
0204 SHELLFISH, EXCEPT PREPARED-----	2,455	679	200	-----	-----	1,576	-----	-----	
0205 COPPER ORE AND CONCENTRATES-----	110,633	110,633	-----	-----	-----	-----	-----	-----	
0206 ALUMINUM ORES, CONCENTRATES-----	357,260	357,260	-----	-----	-----	-----	-----	-----	
0207 NONFERROUS ORES, CONCENT., NEC-----	42,794	42,400	394	-----	-----	-----	-----	-----	
0208 CRUDE PETROLEUM-----	858,205	66,008	-----	272,118	-----	553,042	-----	6,997	
0211 LIMESTONE-----	165,285	165,285	-----	-----	-----	-----	-----	-----	
0242 SAND, GRAVEL, CRUSHED ROCK-----	414,428	16,210	4,503	-----	548	393,566	1	-----	
0451 CLAY-----	11,488	138	2,488	-----	642	7,840	-----	-----	
0471 PHOSPHATE ROCK-----	7,586	-----	7,586	-----	-----	-----	-----	-----	
0491 SALT-----	544,036	515,821	25,500	-----	2,713	-----	-----	-----	
0492 SULPHUR, DRY-----	1,186	-----	1,186	-----	1,146	-----	-----	-----	
0494 GYPSUM, CRUDE AND PLASTER-----	368	-----	368	-----	368	-----	-----	-----	
0499 NONMETALLIC MINERALS, NEC-----	6,703	-----	4,280	-----	423	-----	-----	-----	
1911 ORDNANCE AND AMMUNITION-----	42	-----	42	-----	-----	-----	-----	-----	
2011 MEAT, FRESH, CHILLED, FROZEN-----	38,931	26,305	523	-----	12,103	-----	-----	-----	
2012 MEAT AND PRODUCTS, NEC-----	2,360	2,125	68	-----	167	-----	-----	-----	
2014 TALLOW, ANIMAL FAT, AND OILS-----	49,427	-----	49,427	-----	-----	-----	-----	-----	
2015 ANIMAL BY-PRODUCTS, NEC-----	140	40	60	-----	-----	-----	-----	-----	
2021 DAIRY PRODUCTS, NEC-----	28,344	129	5	-----	28,210	-----	-----	-----	
2022 DRIED MILK AND CREAM-----	663	21	662	-----	-----	-----	-----	-----	
2031 FISH AND SHELLFISH, PREPARED-----	30,891	483	4,261	25,695	452	-----	-----	-----	
2034 VEGETABLES AND PREP., NEC-----	5,307	991	2,315	-----	2,001	-----	-----	-----	
2036 PREP FRUIT AND VEG JUICE, NEC-----	12,766	8,016	4,556	-----	214	-----	-----	-----	
2041 WHEAT FLOUR AND SEMOLINA-----	2,224	-----	2,134	-----	90	-----	-----	-----	
2042 ANIMAL FEEDS-----	204,580	2	201,490	-----	2,602	-----	-----	-----	
2049 GRAIN MILL PRODUCTS, NEC-----	267	136	64	-----	47	-----	-----	-----	
2061 SUGAR-----	23	-----	23	-----	23	-----	-----	-----	
2081 ALCOMOLIC BEVERAGES-----	20,090	4,601	236	20	16,733	-----	-----	-----	
2091 VEGETABLE OILS, MARG, SHORT-----	17	12	5	-----	-----	-----	-----	-----	
2094 GROCERIES-----	104,099	-----	-----	21	104,078	-----	-----	-----	
2099 MISCELLANEOUS FOOD PRODUCTS-----	27,124	4,631	3,687	-----	14,806	-----	-----	-----	
2111 TOBACCO MANUFACTURES-----	107	6	95	-----	6	-----	-----	-----	

## Waterborne Commerce of the United States, 1982

TACOMA HARBOR, WASH.--CONTINUED

FREIGHT TRAFFIC, 1982--CONTINUED

(SHORT TONS)

COMMODITY	FOREIGN			DOMESTIC				LOCAL	
	TOTAL	IMPORTS	EXPORTS	COASTWISE		INTERNAL			
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
2211 BASIC TEXTILE PRODUCTS-----	4,915	4,619	273	223	-----	-----	-----	-----	
2311 APPAREL-----	1,012	981	22	9	-----	-----	-----	-----	
2411 LOGS-----	2,133,222	5,018	2,128,186	18	473,763	142,598	462,206	-----	
2412 RAFTED LOGS-----	1,078,657	-----	-----	-----	-----	-----	-----	-----	
2413 FUEL WOOD, CHARCOAL, WASTES-----	358	140	5	213	1,056	-----	500	-----	
2414 TIMBER, POSTS, POLES, PILING-----	1,473	-----	317	-----	-----	-----	-----	-----	
2416 WOOD CHIPS, STAVES, MOLDINGS-----	496,919	184,658	545,883	-----	165,366	-----	1,012	-----	
2421 LUMBER-----	111,437	2,191	54,956	26	54,244	10	10	-----	
2431 VENEER, PLYWOOD, WORKED WOOD-----	9,213	270	3,615	-----	5,328	-----	-----	-----	
2491 WOOD MANUFACTURES, NEC-----	13,670	1,586	919	3	11,170	-----	1	-----	
2511 FURNITURE AND FIXTURES-----	25,070	1,591	69	7,049	14,361	-----	-----	-----	
2611 PULP-----	114,594	3,289	102,494	-----	-----	12,615	196	-----	
2621 STANDARD NEWSPRINT PAPER-----	7,636	-----	-----	-----	7,636	-----	-----	-----	
2631 PAPER AND PAPERBOARD-----	47,722	4,821	41,975	926	-----	-----	-----	-----	
2691 PULP AND PAPER PRODUCTS, NEC-----	5,758	183	493	24	5,054	-----	-----	-----	
2711 PRINTED MATTER-----	1,021	222	113	-----	686	-----	-----	-----	
2810 SODIUM HYDROXIDE-----	154,269	-----	-----	97,015	-----	57,254	-----	-----	
2812 DYES, PIGMENT, TANNING MATS-----	1	-----	1	-----	-----	-----	-----	-----	
2813 ALCOHOL-----	349	-----	-----	-----	349	-----	-----	-----	
2818 RADIOACTIVE MATERIALS, WASTES-----	59	-----	-----	-----	59	-----	-----	-----	
2819 SULPHURIC ACID-----	75	-----	-----	-----	75	-----	-----	-----	
2819 BASIC CHEMICALS AND PROD., NEC-----	47,074	4,230	31,815	2	11,031	-----	-----	-----	
2821 PLASTIC MATERIALS-----	5,689	1,893	960	-----	2,436	-----	-----	-----	
2822 SYNTHETIC RUBBER-----	6	-----	6	-----	-----	-----	-----	-----	
2823 SYNTHETIC (MAN-MADE) FIBERS-----	689	617	72	-----	-----	-----	-----	-----	
2831 DRUGS-----	257	77	88	-----	92	-----	-----	-----	
2841 SOAP-----	4,046	580	2,909	4	953	-----	-----	-----	
2851 PAINTS-----	2,184	1,529	161	-----	276	-----	-----	-----	
2861 GUM AND WOOD CHEMICALS-----	40,663	-----	-----	-----	24	40,639	-----	-----	
2871 NITROGENOUS CHEM FERTILIZERS-----	7,295	20	2,036	-----	239	-----	-----	-----	
2873 PHOSPHATIC CHEM FERTILIZERS-----	3	-----	3	-----	-----	-----	-----	-----	
2875 INSECTICIDES, DISINFECTANTS-----	637	597	40	-----	-----	-----	-----	-----	
2879 FERTILIZER AND MATERIALS, NEC-----	362	40	322	-----	-----	-----	-----	-----	
2891 MISCELLANEOUS CHEMICAL PROD-----	52,726	16,626	1,009	17,311	-----	17,780	-----	-----	
2911 GASOLINE-----	403,061	154,371	3	125,691	8,367	65,833	14,942	33,854	
2912 JET FUEL-----	162,706	-----	-----	-----	-----	162,706	-----	-----	
2914 DISTILLATE FUEL OIL-----	201,815	-----	17,803	26,733	18,141	81,722	49,715	7,701	
2915 RESIDUAL FUEL OIL-----	922,375	62,915	6,530	21,647	-----	335,555	365,117	130,411	
2916 LUBRICATING OILS AND GREASES-----	981	5	324	-----	403	208	32	9	
2917 NAPHTHA, PETROLEUM SOLVENTS-----	5,730	-----	-----	249	-----	-----	5,481	-----	
2918 ASPHALT, TAR, AND PITCHES-----	310	-----	-----	-----	310	-----	-----	-----	
2920 COKE, PETROLEUM COKE-----	2	2	-----	-----	-----	-----	-----	-----	
2951 ASPHALT BUILDING MATERIALS-----	684	-----	10	2	672	-----	-----	-----	
2991 PETROLEUM AND COAL PROD., NEC-----	11,425	57	-----	22	11,346	-----	-----	-----	
3011 RUBBER AND MISC PLASTIC PROD-----	8,439	4,929	892	122	2,046	-----	-----	-----	
3111 LEATHER AND LEATHER PRODUCTS-----	468	292	176	-----	-----	-----	-----	-----	
3211 GLASS AND GLASS PRODUCTS-----	1,484	274	122	-----	1,086	-----	-----	-----	
3241 BUILDING CEMENT-----	483	-----	-----	483	-----	-----	-----	-----	
3251 STRUCTURAL CLAY PRODUCTS-----	922	549	21	-----	352	-----	-----	-----	
3271 LIME-----	24	-----	-----	-----	24	-----	-----	-----	
3281 CUT STONE AND STONE PRODUCTS-----	534	534	-----	-----	-----	-----	-----	-----	
3291 MISC NONMETALLIC MINERAL PROD-----	36,204	503	324	12	19,779	-----	15,590	-----	
3312 SLAG-----	19,810	-----	-----	-----	-----	-----	19,810	-----	
3314 IRON AND STEEL PRIMARY FORMS-----	24	-----	-----	-----	24	-----	-----	-----	
3315 IRON, STEEL SHAPES, EXC SHEET-----	28,799	14,405	38	10	13,846	-----	-----	-----	
3316 IRON AND STEEL PLATES, SHEETS-----	23,491	23,180	83	-----	228	-----	-----	-----	
3317 IRON AND STEEL PIPE AND TUBE-----	25,447	4,659	23	126	21,039	-----	-----	-----	
3318 FERROALLOYS-----	329	322	7	-----	-----	-----	-----	-----	
3319 IRON AND STEEL PRODUCTS, NEC-----	529	131	37	-----	361	-----	-----	-----	
3321 NONFERROUS METALS, NEC-----	16,877	16,257	52	20	508	-----	-----	-----	
3322 COPPER ALLOYS, UNWORKED-----	11,634	5,302	6,311	-----	21	-----	-----	-----	
3323 LEAD AND ZINC, UNWORKED-----	13,203	4,101	9,102	-----	-----	-----	-----	-----	
3324 ALUMINUM AND ALLOYS, UNWORKED-----	33,654	10,505	22,977	-----	172	-----	-----	-----	
3411 FABRICATED METAL PRODUCTS-----	75,913	33,544	1,276	622	38,176	-----	2,295	-----	
3511 MACHINERY, EXCEPT ELECTRICAL-----	57,932	11,893	20,759	5,052	14,610	370	1,248	-----	
3611 ELECTRICAL MACH AND EQUIP-----	31,169	27,329	1,584	2	2,254	-----	-----	-----	
3711 MOTOR VEHICLES, PARTS, EQUIP-----	146,432	118,325	1,710	2,856	21,537	-----	-----	-----	
3721 AIRCRAFT AND PARTS-----	64	7	17	-----	40	-----	-----	-----	
3731 SHIPS AND BOATS-----	290,591	434	44	9	104	-----	280,000	-----	
3791 MISC TRANSPORTATION EQUIPMENT-----	1,935	1,071	31	23	810	-----	-----	-----	
3811 INSTR, TIME, PHOTO, OPT GOOQS-----	682	346	261	-----	75	-----	-----	-----	
3911 MISC MANUFACTURED PRODUCTS-----	3,124	2,830	204	-----	96	-----	-----	-----	
4011 IRON AND STEEL SCRAP-----	316,864	44,597	270,244	1,785	18	220	-----	-----	
4012 NONFERROUS METAL SCRAP-----	8,764	7,912	652	-----	-----	-----	-----	-----	
4022 TEXTILE WASTE, SCRAP, SHEEP-----	310	-----	310	-----	-----	-----	-----	-----	
4024 PAPER WASTE AND SCRAP-----	614	-----	614	-----	-----	-----	-----	-----	
4029 WASTE AND SCRAP, NEC-----	84,000	-----	-----	-----	-----	48,000	-----	-----	
4112 COMMODITIES, NEC-----	159,424	1,654	297	8,883	144,590	-----	-----	-----	
4119 EMPTY CONTAINERS-----	1,636	-----	-----	541	1,095	-----	-----	-----	
9999 DEPARTMENT OF DEFENSE AND SCI-----	35	-----	35	-----	-----	-----	-----	-----	

**SEATTLE, WA, DISTRICT**

SEATTLE HARBOR, WASH.

67

SECTION INCLUDES: FROM UNION OIL DOCK NEAR FUMONDS ON THE NORTH TO FAINTLEROY FERRY SLIP ON THE SOUTH, INCLUDING ELLIOTT BAY, EAST, WEST, AND DUWAMISH WATERWAY, LAKE WASHINGTON SHIP CANAL, SALMON RAY, LAKE UNION, LAKE WASHINGTON, AND KENMORE NAVIGATION CHANNEL. CONTROLLING DEPTHS: ELLIOTT BAY, UNLIMITED; WEST WATERWAY, 30.0 FEET; EAST WATERWAY, 31.4 FEET; DUWAMISH WATERWAY, 14.4 FEET FROM HEAD OF WEST WATERWAY TO 1ST AVENUE SO., 14.9 FEET FROM 1ST AVENUE SO. TO 14TH AVENUE SO., 10.0 FEET FROM 14TH AVENUE SO. TO HEAD OF WATERWAY; LAKE WASHINGTON SHIP CANAL, 27.0 FEET BELOW LOCKS; ABOVE THE LOCKS 24.6 FEET, KENMORE NAVIGATION CHANNEL 14.5 FEET. PROJECT DEPTHS: ELLIOT RAY, UNLIMITED; EAST AND WEST WATERWAYS, 30 FEET; DUWAMISH WATERWAY, 30 FEET TO FIRST AVENUE SOUTH; 20 FEET TO 10TH AVENUE SOUTH; AND 15 FEET FROM 8TH AVENUE SOUTH TO HEAD OF WATERWAY; LAKE WASHINGTON SHIP CANAL, 34 FEET BELOW LOCKS; 30 FEET AT LOWER PUDL LEVEL, KENMORE NAVIGATION CHANNEL 15 FEET. ALL DEPTHS REFER TO MLLW EXCEPT INSIDE LAKE WASHINGTON SHIP CANAL WHICH REFLECTS LOW LAKE LEVEL.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1973-----	16,335,378	664,800	17,000,178	4,500,220	1978-----	22,117,870	303,795	22,481,665	6,540,219
1974-----	13,682,986	369,003	14,251,989	5,119,717	1979-----	19,791,540	246,890	20,039,430	6,290,453
1975-----	14,637,554	370,841	15,008,395	5,102,751	1980-----	21,106,410	142,424	21,288,834	6,899,602
1976-----	16,319,829	458,061	16,777,890	5,648,639	1981-----	20,320,142	194,412	20,514,554	6,944,579
1977-----	16,080,656	352,220	16,432,876	6,051,503	1982-----	17,688,117	117,051	17,805,168	10,071,587

ADDITIONAL TRAFFIC

YEAR	TONS	CAR FERRY-RAILROAD CARS			GENERAL FERRY	YEAR	TONS	CAR FERRY-RAILROAD CARS			GENERAL FERRY
		EMPTY	LOADED	TOTAL				#VEHICLES	PASSENGERS		
1973-----	102,948	-----	-----	-----	2,708,497	4,506,220	1978-----	-----	-----	3,708,037	6,540,219
1974-----	**	-----	-----	-----	2,892,276	5,119,717	1979-----	-----	-----	4,966,263	6,290,453
1975-----	**	-----	-----	-----	2,811,602	5,102,751	1980-----	-----	-----	3,771,474	6,899,602
1976-----	**	-----	-----	-----	3,024,735	5,648,639	1981-----	-----	-----	3,485,863	6,944,579
1977-----	**	-----	-----	-----	3,379,812	6,051,503	1982-----	-----	-----	3,431,350	10,071,587

\* INCLUDES AUTOMOBILES, TRUCKS, AND TRAILERS.

\*\* NOT REPORTED.

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
		IMPORTS	EXPORTS	COASTWISE		INTERNAL			
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
TOTAL-----	17,805,168	3,738,330	3,941,614	1,677,306	2,189,880	4,073,409	1,232,405	992,175	
0101 COTTON, RAW-----	23,454	-----	23,454	-----	-----	-----	-----	-----	
0102 BARLEY AND RYE-----	883	420	288	-----	175	-----	-----	-----	
0103 CORN-----	505,467	-----	505,469	-----	198	-----	-----	-----	
0104 OATS-----	2,969	11	2,958	-----	6	-----	-----	-----	
0105 RICE-----	1,710	1,633	73	-----	-----	-----	-----	-----	
0106 SORGHUM GRAINS-----	212,225	-----	212,225	-----	-----	-----	-----	-----	
0107 WHEAT-----	499,967	2	499,965	-----	-----	-----	-----	-----	
0111 SOYBEANS-----	254,275	31	254,244	-----	134	-----	-----	-----	
0112 FLAXSEED-----	130	-----	130	-----	-----	-----	-----	-----	
0119 OILSEEDS, NEC-----	6,841	325	6,556	-----	-----	-----	-----	-----	
0121 TOBACCO, LEAF-----	11,527	11,203	148	-----	176	-----	-----	-----	
0122 HAY AND FODDER-----	471	-----	471	-----	471	-----	-----	-----	
0129 FIELD CROPS, NEC-----	10,696	464	10,174	-----	58	-----	-----	-----	
0131 FRESH FRUITS-----	179,508	13,675	162,321	206	3,306	-----	-----	-----	
0132 BANANAS AND PLANTAINS-----	1	1	1	-----	-----	-----	-----	-----	
0133 COFFEE-----	4,161	3,403	27	274	457	-----	-----	-----	
0134 COCOA BEANS-----	495	495	495	-----	-----	-----	-----	-----	
0141 FRESH AND FROZEN VEGETABLES-----	114,370	1,342	104,228	42	8,758	-----	-----	-----	
0161 ANIMALS AND PRODUCTS, NEC-----	6,026	1,234	4,404	388	-----	-----	-----	-----	
0191 MISCELLANEOUS FARM PRODUCTS-----	1,518	518	200	-----	400	-----	-----	-----	
0841 CRUDE RUBBER AND ALLIED GUMS-----	13,004	12,760	204	-----	-----	-----	-----	-----	
0961 FOREST PRODUCTS, NEC-----	4,153	1,138	1,054	-----	1,557	-----	-----	-----	
0991 FRESH FISH, EXCEPT SHELLFISH-----	114,055	3,265	69,312	11,039	2,237	26,202	-----	-----	
0992 SHELLFISH, EXCEPT PREPARED-----	15,223	3,720	5,674	1,997	431	1,001	-----	-----	
1011 IRON ORE AND CONCENTRATES-----	900	60	60	-----	30	-----	-----	-----	
1021 COPPER ORE AND CONCENTRATES-----	134,535	8,000	130,535	-----	-----	-----	-----	-----	
1051 ALUMINUM ORES, CONCENTRATES-----	37,661	37,616	45	-----	-----	-----	-----	-----	
1091 NONFERROUS METALS, CONCENTRATES-----	6,018	737	5,213	68	-----	-----	-----	-----	
1121 COAL AND LIGNITE-----	21,183	-----	1,487	319	16,577	-----	2,400	-----	
1311 CRUDE PETROLEUM-----	69,376	7,202	-----	50,518	7,660	-----	-----	-----	
1411 LIMESTONE-----	256,759	256,282	28	-----	489	-----	-----	-----	
1412 BUILDING STONE, UNWORKED-----	9,012	-----	9,012	-----	-----	-----	-----	-----	
1442 SAND, GRAVEL, CRUSHED ROCK-----	2,160,430	749,917	33,384	-----	633	1,335,168	2,828	7,500	
1451 CLAY-----	162,362	1,520	18,280	73	1,494	137,156	-----	3,620	
1471 PHOSPHATE ROCK-----	1	1	1	-----	-----	-----	-----	-----	
1475 NATURAL FERTILIZER MATS, NEC-----	1	1	1	-----	-----	-----	-----	-----	
1491 SALT-----	21,022	53	46	-----	20,763	-----	160	-----	
1492 SULPHUR, DRY-----	10,090	-----	6	-----	4,498	-----	590	-----	
1494 CEMENT, CRUDE AND PLASTERS-----	119	-----	-----	-----	119	-----	-----	-----	
1499 NONMETALLIC MINERALS, NEC-----	27,042	32	13,067	-----	4,243	-----	-----	8,100	
1911 ORDNANCE AND ACCESSORIES-----	620	542	84	-----	-----	-----	-----	-----	
2011 MEAT, FRESH, CHILLED, FROZEN-----	17,568	920	13,491	42	3,115	-----	-----	-----	
2012 MEAT AND PRODUCTS, NEC-----	2,700	1,447	1,253	-----	-----	-----	-----	-----	
2013 TALLOW, ANIMAL FATS AND OILS-----	35,157	-----	35,157	-----	-----	-----	-----	-----	
2015 ANIMAL BY-PRODUCTS, NEC-----	94,666	19	48,667	-----	-----	-----	-----	-----	
2021 DAIRY PRODUCTS, NEC-----	2,096	966	56	19	1,055	-----	-----	-----	
2022 DRIED MILK AND CREAM-----	6,216	5	6,211	-----	-----	-----	-----	-----	
2031 FISH AND SHELLFISH, PREPARED-----	136,022	10,058	15,531	109,776	657	-----	-----	-----	
2034 VEGETABLES AND PREP, NEC-----	AA,106	29,337	52,880	258	5,627	-----	-----	-----	
2039 PREP FRUIT AND VEG JUICE, NEC-----	64,064	45,441	9,946	8,081	1,694	-----	-----	-----	

## Waterborne Commerce of the United States, 1982

SEATTLE HARBOUR, WASH.--CONTINUED

ENLIGHT TRAFFIC, 1982--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOODSTUFF		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	
2041 WHEAT FLOUR AND SEMOLINA-----	9,758	2,465	-----	7,293	-----	-----
2042 ANIMAL FEEDS-----	109,212	3,309	96,663	9,246	-----	-----
2043 GRAIN MILL PRODUCTS, NEC-----	58,406	2,310	49,898	33	6,165	-----
2061 SUGAR-----	1,385	35	142	1,185	23	-----
2062 MOLASSES-----	74,644	19,273	-----	24,375	-----	30,996
2081 ALCOHOLIC BEVERAGE-----	123,550	36,043	15,698	36	64,973	-----
2091 VEGETABLE OILS, MARG., SHORT-----	788	373	303	-----	112	-----
2092 ANIMAL OILS AND FATS, NEC-----	417	3	1	413	-----	-----
2094 GROCERIES-----	33,599	-----	-----	124	33,475	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	97,000	10,768	42,107	130	36,004	-----
2111 TOBACCO MANUFACTURES-----	1,632	44	1,342	1	205	-----
2211 BASIC TEXTILE PRODUCTS-----	44,742	41,045	3,079	294	324	-----
2212 TEXTILE FIBERS, NEC-----	37	32	-----	-----	5	-----
2311 APPAREL-----	123,358	123,010	155	-----	193	-----
2411 LOGS-----	50,978	20,011	30,514	-----	453	-----
2412 RAFTED LOGS-----	117,051	-----	-----	-----	64,559	30,133
2413 FUEL, WOOD, CHARCOAL, WASTES-----	16,756	232	74	7	111	90
2414 TIMBER, POSTS, POLES, PILING-----	18,490	177	714	-----	4,419	245
2416 WOOD CHIPS, STAVES, HOLDINGS-----	27,448	14,667	1,055	-----	-----	11,726
2421 LUMBER-----	630,837	70,962	346,132	7,092	152,312	56,539
2431 VENEER, PLYWOOD, WORKED WOOD-----	49,198	1,931	3,132	14	35,595	8,526
2491 WOOD MANUFACTURES, NEC-----	69,954	20,772	11,240	103	37,824	15
2511 FURNITURE AND FIXTURES-----	50,231	35,707	584	2,510	11,664	-----
2611 PULP-----	377,006	35,335	213,002	31,098	-----	96,477
2621 STANDARD NEWSPRINT PAPER-----	14,602	-----	-----	5,201	9,950	1,551
2631 PAPER AND PAPERBOARD-----	510,614	193,091	218,963	76	4,124	93,950
2691 PULP AND PAPER PRODUCTS, NEC-----	34,191	5,278	3,181	5,600	24,172	-----
2711 PRINTED MATTER-----	11,203	10,581	591	-----	31	-----
2810 SODIUM HYDROXIDE-----	30,369	-----	-----	-----	10,466	19,501
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	6,774	-----	40	6,659	25	-----
2812 DYES, PIGMENT, TANNING MATS-----	1,057	-----	94	-----	963	-----
2813 ALCOHOLS-----	1,333	-----	3	-----	1,330	-----
2814 RADIOACTIVE MATERIALS, WASTES-----	55	-----	7	3	45	-----
2817 BENZENE AND TOLUENE-----	1,815	-----	-----	-----	1,815	-----
2818 SULPHURIC ACID-----	74	-----	-----	-----	74	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	60,411	22,090	23,019	446	21,851	2,405
2821 PLASTIC MATERIALS-----	51,231	18,531	32,211	-----	499	-----
2822 SYNTHETIC RUBBER-----	2,907	-----	2,907	-----	-----	-----
2823 SYNTHETIC (MAN-MADE) FIBERS-----	11,147	2,671	4,254	-----	222	-----
2831 DRUGS-----	1,475	598	425	-----	57	-----
2841 SOAP-----	17,485	663	15,861	-----	761	-----
2851 PAINTS-----	14,382	15,889	1,430	2	1,052	-----
2861 GUM AND WOOD CHEMICALS-----	194,790	45	5	106	-----	86,110
2871 NITROGENOUS CHEM FERTILIZERS-----	4,805	120	-----	-----	4,685	-----
2872 POTASSIUM CHEM FERTILIZERS-----	19	-----	-----	19	-----	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	29,318	29,184	134	-----	-----	-----
2875 INSECTICIDES, DISINFECTANTS-----	4,633	484	4,149	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	11,420	698	9,639	-----	1,083	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	45,874	1,836	4,807	4,673	34,554	-----
2911 GASOLINE-----	1,137,570	50,756	570	326,036	52,002	512,301
2912 JET FUEL-----	241,566	-----	-----	45,419	85,131	111,018
2913 FEROSENE-----	3,712	8	2,850	854	-----	-----
2914 DISTILLATE FUEL OIL-----	1,194,291	5,185	14,601	287,224	204,228	405,098
2915 RESIDUAL FUEL OIL-----	2,765,022	87,355	12,630	408,784	67,476	902,754
2916 LUBRICATING OILS AND GREASES-----	71,958	9,000	1,627	50,660	1,435	279
2917 NAPHTHA, PETROLEUM SOLVENTS-----	5,205	-----	-----	3,150	55	-----
2918 ASPHALT, TAR, AND PITCHES-----	84,626	-----	11	71,525	13,075	15
2920 COKE, PETROLEUM COKE-----	1,518	-----	301	-----	1,217	-----
2921 LIQUEFIED GASES-----	5,927	463	35	44	405	4,580
2951 ASPHALT BUILDING MATERIALS-----	2,483	-----	181	39	2,265	-----
2991 PETROLEUM AND COAL PROD, NEC-----	13,428	66	50	32	13,280	-----
3011 RUBBER AND MISC PLASTIC PROD-----	57,157	50,244	2,723	186	4,004	-----
3111 LEATHER AND LEATHER PRODUCTS-----	104,778	96,327	12,344	21	86	-----
3211 GLASS AND GLASS PRODUCTS-----	17,964	14,409	1,490	55	2,010	-----
3251 BUILDING CEMENT-----	365,809	76,925	2,314	85,981	111,118	87,746
3271 LIME-----	13,675	12,231	332	-----	1,112	-----
3281 CUT STONE AND STONE PRODUCTS-----	718	-----	19	-----	699	-----
3291 MISC NONMETALLIC MINERAL PROD-----	4,890	4,302	42	-----	546	-----
3312 SLAG-----	137,131	51,940	1,884	59	81,173	2,000
3312 SLAG-----	26,240	-----	-----	-----	7,593	14,055
3314 IRON AND STEEL PRIMARY FORMS-----	243	22	10	-----	207	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	124,222	121,133	178	4	2,857	-----
3316 IRON AND STEEL PLATES, SHEETS-----	7,354	4,108	403	-----	2,683	-----
3317 IRON AND STEEL PIPE AND TUBE-----	103,207	59,696	626	1,242	41,643	-----
3318 FERROALLOYS-----	2,313	177	2,136	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	22,459	21,747	90	-----	622	-----
3321 NONFERROUS METALS, NEC-----	5,323	3,848	1,053	1	421	-----
3322 COPPER ALLOYS, UNWORKED-----	3,668	3,023	514	2	189	-----
3323 LEAD AND ZINC, UNWORKED-----	7,759	24	7,354	-----	377	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	121,939	9,741	112,180	14	-----	-----
3411 FABRICATED METAL PRODUCTS-----	311,687	212,131	11,377	1,797	81,210	3,118
3511 MACHINERY, EXCEPT ELECTRICAL-----	236,909	142,148	20,296	9,638	54,603	4,819
3611 ELECTRICAL MACH AND EQUIP-----	262,120	246,830	10,125	61	3,039	65
3711 MOTOR VEHICLES, PARTS, EQUIP-----	293,917	239,843	10,577	3,832	39,340	173
3721 AIRCRAFT AND PARTS-----	3,983	3,868	95	7	13	-----
3731 SHIPS AND BOATS-----	7,015	3,041	409	131	3,634	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	17,723	2,090	296	997	9,209	387
3811 INSTN, TIME, PHOTO, OPT GOODS-----	18,105	16,535	1,502	-----	68	-----
3911 MISC MANUFACTURED PRODUCTS-----	179,040	154,703	1,737	18,281	4,363	-----
4011 IRON AND STEEL SCRAP-----	54,215	487	44,652	9,076	-----	-----
4012 NONFERROUS METAL SCRAP-----	34,140	33	36,047	16	42	-----
4022 TEXTILE WASTE, SCRAP, SHEEP-----	2,727	106	2,619	-----	-----	-----
4024 PAPER WASTE AND SCRAP-----	161,453	1,040	160,372	-----	41	-----
4029 WASTE AND SCRAP, NEC-----	243,225	-----	-----	-----	48,025	195,200

**SEATTLE, WA, DISTRICT**

69

SEATTLE HARBOR, WASH.--CONTINUED

FREIGHT TRAFFIC, 1982--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		INTERNAL SHIPMENTS	LOCAL SHIPMENTS
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
4112 COMMODITIES, NEC-----	761,123	36,164	1,799	57,384	665,682	225	1,939		
4119 EMPTY CONTAINERS-----	6,004			8,546	438				
9999 DEPARTMENT OF DEFENSE AND SCI-----	759		759						

LAKE WASHINGTON SHIP CANAL, WASH.  
(INCLUDED IN TRAFFIC OF SEATTLE HARBOR, WASH.)

SECTION INCLUDED AS DESCRIBED UNDER SEATTLE HARBOR, WASH.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTER (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTER (TONS)	TOTAL (TONS)	PASSENGERS
1973-----	1,456,193	559,770	2,015,972	-----	1978-----	1,733,392	211,245	1,944,657	-----
1978-----	1,197,139	261,404	1,458,547	55,788	1979-----	1,703,454	145,491	1,910,305	44,065
1975-----	1,537,447	260,235	1,797,680	57,495	1980-----	1,571,656	132,495	1,672,153	14,397
1976-----	1,383,283	378,425	1,762,104	25,034	1981-----	1,451,205	145,341	1,976,544	45,936
1977-----	1,348,728	131,321	1,480,040	46,591	1982-----	1,226,640	90,077	1,316,707	27,747

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		INTERNAL SHIPMENTS	LOCAL SHIPMENTS
		IMPORTS	RECEIPTS	SHIPMENTS	WCFIRTS	SHIPMENTS			
TOTAL-----	1,316,707	3,500	33,504	161,342	1,026,203	57,626	34,523		
0122 HAY AND FODDER-----	191			181					
0861 FOREST PRODUCTS, NEC-----	29			29					
0911 FRESH FISH, EXCEPT SHELLFISH-----	1,448	4	468	99	793,172	793,172	400		
1442 SAND, GRAVEL, CRUSHED ROCK-----	900			900					
1451 CLAY-----	6,278		46	6,232					
1491 SALT-----	119			119					
1499 GYPSUM, CRUDE AND PLASTERS-----	730		50	700					
2011 MEAT, FRESH, CHILLED, FROZEN-----	24,551	28,549	2	24,551					
2031 FISH AND SHELLFISH, PREPARED-----	1,144	65	1,009	1,144					
2039 PREP FRUIT AND VEG JUICE, NEC-----	46		46	46					
2041 WHEAT FLOUR AND SEMOLINA-----	199			199					
2042 ANIMAL FEEDS-----	263			263					
2049 GRAIN MILL PRODUCTS, NEC-----	23			23					
2061 SUGAR-----	4,940		4,940	4,940					
2081 ALCOHOLIC BEVERAGES-----	2,454		2,454	2,454					
2099 GROCERIES-----	2,540		2,540	2,540					
2099 MISCELLANEOUS FOOD PRODUCTS-----	13		13	13					
2211 BASIC TEXTILE PRODUCTS-----	9		9	9					
2311 APPAREL-----	20		20	20					
2411 LOGS-----	90,027			25,392	51,276	13,359			
2412 RAFTED LOGS-----	50			50					
2413 FUEL WOOD, CHARCOAL, WASTES-----	1,492		1,222	5	55	150			
2418 TIMBER, POSTS, POLES, PILING-----	37,905	129	37,781	5	55	30			
2421 LUMBER-----	8,192			8,192					
2431 VENEER, PLYWOOD, WORKED WOOD-----	8,801	4	8,797			15			
2491 WOOD MANUFACTURES, NEC-----	1,261	483	818						
2511 FURNITURE AND FIXTURES-----	228			228					
2621 STANDARD NEWSPRINT PAPER-----	40		40	40					
2631 PAPER AND PAPERBOARD-----	4,807	119	8,688						
2691 PULP AND PAPER PRODUCTS, NEC-----	19		19	19					
2810 SODIUM HYDROXIDE-----	25		25	25					
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	53		53	53					
2819 BASIC CHEMICALS AND PROD, NEC-----	81		81	81					
2821 PLASTIC MATERIALS-----	14		14	14					
2841 SOAP-----	4		4	4					
2851 PAINTS-----	40		40	40					
2871 NITROGENOUS CHEM FERTILIZERS-----	179		179	179					
2879 FERTILIZER AND MATERIALS, NEC-----	96,898	3,505	67	74,716	32,450	14,756			
2911 GASEOLINE-----	3,128			3,128					
2914 DISTILLATE FUEL OIL-----	125,904		111	116,611	643	6,239			
2915 RESIDUAL FUEL OIL-----	11,363			11,343					
2916 LUBRICATING OILS AND GREASES-----	537			533		4			
2921 LIQUEFIED GASES-----	87		87	87					
2951 ASPHALT BUILDING MATERIALS-----	1,052		1	1,051					
2991 PETROLEUM AND COAL PROD, NEC-----	340			340					
3011 RUBBER AND MISC PLASTIC PROD-----	541		14	567					
3211 GLASS AND GLASS PRODUCTS-----	48			48					
3241 BUILDING CEMENT-----	3,866			3,866					
3251 STRUCTURAL CLAY PRODUCTS-----	31			31					
3271 LIME-----	41			41					
3281 CUT STONE AND STONE PRODUCTS-----	536			536					
3291 MISC NONMETALLIC MINERAL PROD-----	14,227	3	14,224						
3315 IRON, STEEL SHAPES, EXC SHEET-----	542			542					
3316 IRON AND STEEL PLATES, SHEETS-----	3		3	3					
3317 IRON AND STEEL PIPE AND TUBE-----	1,235			1,235					
3319 IRON AND STEEL PRODUCTS, NEC-----	389			389					

## Waterborne Commerce of the United States, 1982

LAKE WASHINGTON SHIP CANAL, WASH.  
(INCLUDED IN TRAFFIC OF SEATTLE HARBOR, WASH.)--CONTINUED

## FREIGHT TRAFFIC, 1982--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		COASTWISE		INTERNAL		
		IMPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
3322 COPPER ALLOYS, UNWORKED-----	7	-----	2	5	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	4	-----	0	0	-----	-----
3411 FABRICATED METAL PRODUCTS-----	12,398	532	11,830	-----	32	15
3511 MACHINERY, EXCEPT ELECTRICAL-----	6,224	971	5,234	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	61	11	50	-----	-----	15
3711 MOTOR VEHICLES, PARTS, EQUIP-----	2,487	274	2,135	-----	36	-----
3721 AIRCRAFT AND PARTS-----	12	3	9	-----	-----	-----
3731 SHIPS AND BOATS-----	1,430	109	1,321	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	3,317	139	3,174	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	11	-----	11	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	91	91	-----	-----	-----	-----
4024 PAPER WASTE AND SCRAP-----	41	-----	41	-----	-----	-----
4112 COMMODITIES, NEC-----	36,091	6,175	31,916	-----	-----	-----
4119 EMPTY CONTAINERS-----	1,500	1,345	155	-----	-----	-----

## EVERETT HARBOR AND SNOHOMISH RIVER, WASH.

SECTION INCLUDED: PORT GARDNER BAY FROM THE EVERHARVE COMPANY THERMO-MECHANICAL MILL, ON THE SOUTH TO PRESTON POINT ON THE NORTH AND INCLUDING THE SNOHOMISH RIVER AND TRIBUTARY WATERWAYS, CO-TROLLING DEPTHS EAST WATERWAY, 33.3 FEET; 12.1 FEET IN PORT GARDNER BAY TO THE SETTLING BASINS, 6.1 FEET IN THE SETTLING BASIN; 6.6 FEET FROM THE SETTLING BASIN TO BURLINGTON NORTHERN RAILROAD; 6.6 FEET FROM BURLINGTON NORTHERN RAILROAD TO HEAD OF WATERWAY AT STEAMBOAT SLough, PROJECT DEPTH: EAST WATERWAY, 30 FEET; DEEP WATER IN PORT GARDNER BAY TO SETTLING BASIN, 15 FEET; SETTLING BASIN, 20 FEET; FROM THE SETTLING BASIN TO THE GAP, 4 FEET; FROM THE GAP TO THE UPSTREAM SETTLING BASIN, 8 FEET; 40 FEET IN UPSTREAM SETTLING BASIN; 4 FEET TO HEAD OF WATERWAY. ALL DEPTHS REFER TO MLLW.

## COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973-----	2,650,138	2,269,792	4,919,930	1978-----	2,824,887	3,239,228	6,063,715
1974-----	2,515,614	1,805,540	4,321,156	1979-----	2,466,941	2,331,705	4,798,646
1975-----	2,536,774	1,829,048	4,366,723	1980-----	2,342,826	2,016,241	4,359,107
1976-----	2,847,554	1,295,463	4,143,017	1981-----	1,879,790	1,421,707	3,301,497
1977-----	2,687,127	1,901,875	4,580,002	1982-----	2,300,986	1,686,001	3,946,987

\* PASSENGERS--6,746.

## FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL	
		COASTWISE		INTERNAL			
		IMPORTS	EXPORTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL-----	3,986,987	435,655	1,572,458	25,167	1,030,110	209,193	714,400
0106 SORGHUM GRAINS-----	118	-----	118	-----	-----	-----	-----
0129 FIELD CROPS, NEC-----	78	67	31	-----	-----	-----	-----
0131 FRESH FRUITS-----	9,155	-----	9,155	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	1,223	-----	1,223	-----	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	5,034	21	131	-----	4,882	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	133	-----	133	-----	133	-----	-----
1021 COPPER ORE AND CONCENTRATES-----	2,547	-----	2,547	-----	-----	-----	-----
1051 ALUMINUM ORES, CONCENTRATES-----	183,502	183,502	-----	-----	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	2,000	-----	2,000	-----	2,000	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	107	-----	107	-----	-----	-----	-----
2011 MEAT, FRESH, CHILLED, FROZEN-----	9	-----	9	-----	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	10	2	8	-----	-----	-----	-----
2034 VEGETABLES AND PREP, NEC-----	41	-----	41	-----	-----	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	1	1	1	-----	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	3	3	3	-----	-----	-----	-----
2699 MISCELLANEOUS FOOD PRODUCTS-----	5	3	2	-----	-----	-----	-----
2811 TOBACCO MANUFACTURES-----	15	-----	15	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	2	2	2	-----	-----	-----	-----
2311 APPAREL-----	11	11	11	-----	-----	-----	-----
2411 LOGS-----	1,624,189	104,698	1,519,491	-----	-----	-----	-----
2412 RAFTED LOGS-----	1,686,001	-----	-----	803,732	167,869	714,400	-----
2413 FUEL WOOD, CHARCOAL, WASTES-----	5,227	-----	41	-----	-----	5,186	-----
2414 TIMBER, POSTS, POLES, PILING-----	400	-----	400	350	-----	50	-----
2416 WOOD CHIPS, STAVES, HOLDINGS-----	186,973	126,463	-----	-----	40,672	19,438	-----
2421 LUMBER-----	31,217	3,966	6,485	20,406	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	2,061	2	12	2,047	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	18	1P	1P	-----	-----	11,754	-----
2611 PULP-----	24,803	-----	13,049	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	1	1	1	-----	-----	-----	-----
2610 SODIUM HYDROXIDE-----	8,659	-----	-----	8,659	-----	-----	-----
2841 SOAP-----	66	-----	66	-----	-----	-----	-----
2861 GUM AND WOOD CHEMICALS-----	29,978	-----	-----	29,978	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	2,097	-----	2,097	-----	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	9,910	-----	-----	9,910	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	8,164	-----	-----	8,164	-----	-----	-----
2915 RESIDUAL FUEL OIL-----	121,864	-----	-----	121,864	-----	-----	-----
2916 LUBRICATING OILS AND GREASES-----	12	-----	12	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	5	-----	5	-----	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	1	1	1	-----	-----	-----	-----

**SEATTLE, WA, DISTRICT**

EVERETT HARBOR AND SNOHOMISH RIVER, WASH.--CONTINUED

71

**FREIGHT TRAFFIC, 1982--CONTINUED**

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		CCASTSHIP	DOMESTIC INTERVAL		LOCAL
		IMPORTS	EXPORTS		SHIPMENTS	RECEIPTS	
3241 BUILDING CEMENT-----	150			150			
3291 MISC NONMETALLIC MINERAL PROD-----	2,024						2,024
3315 IRON, STEEL SHAPES, EXC SHEET-----	2,690	1,604		1,080			
3316 IRON AND STEEL PLATES, SHEETS-----	13,082	13,082					
3317 IRON AND STEEL PIPE AND TUBE-----	647	467					
3324 ALUMINUM AND ALLOYS, UNWORKED-----	17,769		17,769				
3411 FABRICATED METAL PRODUCTS-----	569	367	16	136			30
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,586		94	492			2,030
3611 ELECTRICAL MACH AND EQUIP-----	2	2					
3711 MOTOR VEHICLES, PARTS, EQUIP-----	589	580	2	7			
3731 SHIPS AND BOATS-----	31		1	30			
3791 MISC TRANSPORTATION EQUIPMENT-----	33			33			
3911 MISC MANUFACTURED PRODUCTS-----	13	12	1				
4029 WASTE AND SCRAP, NEC-----	200						200
4112 COMMODITIES, NEC-----	822	3	39	30	108	442	

SNOHOMISH CHANNEL, WASH.

SECTION INCLUDED: ENTIRE CHANNEL, CONTROLLING DEPTH 9.0 FEET, PROJECT DEPTH 12 FEET. ALL DEPTHS REFER TO MLLW.

**COMPARATIVE STATEMENT OF TRAFFIC**

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973-----	58,280	560,034	618,274	1978-----	1,805	890,987	891,902
1974-----	7,775	616,697	624,472	1979-----	4,403	1,053,450	1,057,853
1975-----	20,771	526,656	547,427	1980-----	17,459	676,112	653,571
1976-----	64,310	717,782	782,092	1981-----	21,372	776,984	798,356
1977-----	2,600	1,035,791	1,038,391	1982-----	3,107	697,024	700,131

**FREIGHT TRAFFIC, 1982**

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	INBOUND	OUTBOUND	INTERNAL		SOUTHBOUND
				NORTHBOUND	INTERSTATE	
TOTAL-----	700,131	50,964	157,374	35,825	455,972	
0911 FRESH FISH, EXCEPT SHELLFISH-----		2,987	2,987			
0912 SHELLFISH, EXCEPT PREPARED-----		120	120			
2412 RAFTED LOGS-----	697,024	47,853	157,374	35,825	455,972	
TOTAL TON-MILES, 2,929,824.						

ANACORTES HARBOR, WASH.

SECTION INCLUDED: WATER FRONT OF FIDALGO ISLAND FROM BURROWS BAY TO AND INCLUDING THE JIL REFINERY WHARVES ON FIDALGO BAY, CONTROLLING DEPTH; MAIN HARBOR ON GUENES CHANNEL, 33 FEET; CAPSANTE WATERWAY, OUTER WATERWAY 11.5 FEET, INNER WATERWAY 10.3 FEET, ANACORTES NAVIGATION CHANNEL, 17.0 FEET. PROJECT DEPTH: NO PROJECT FOR MAIN HARBOR CAPSANTE WATERWAY, 12 FEET ANACORTES NAVIGATION CHANNEL, 18 FEET. ALL DEPTHS REFER TO MLLW.

**COMPARATIVE STATEMENT OF TRAFFIC**

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1973-----	2,749,726	146,221	2,995,947	614,026	1974-----	9,747,419	177,343	9,964,762	742,968
1974-----	3,792,185	179,460	3,971,825	717,199	1975-----	9,428,091	170,970	9,599,045	664,318
1975-----	8,650,542	200,997	4,851,539	764,243	1976-----	9,343,412	122,176	9,165,812	753,148
1976-----	7,240,868	250,781	7,491,649	654,733	1977-----	9,323,349	228,033	9,851,082	840,096
1977-----	8,821,585	146,728	8,968,313	695,552	1982-----	9,346,613	92,627	9,439,240	1,417,412

## Waterborne Commerce of the United States, 1982

ANACORTES HARBOR, WASH.--CONTINUED

## ADDITIONAL TRAFFIC

YEAR	GENERAL FERRY									
	FOREIGN			DOMESTIC			TOTAL			
	TONS	VEHICLES	PASSENGERS	TONS	VEHICLES	PASSENGERS	TONS	VEHICLES	PASSENGERS	
1973-----	3,789	55,187	177,454	18,495	260,637	436,572	22,284	315,824	614,026	
1974-----	*	53,261	174,468	*	315,612	542,735	*	364,473	717,199	
1975-----	*	58,908	195,312	*	333,433	568,931	*	392,341	764,243	
1976-----	*	56,010	142,004	*	322,490	512,734	*	378,909	654,738	
1977-----	*	55,218	161,124	*	362,967	554,428	*	418,185	695,552	
1978-----	*	48,492	131,014	*	396,974	611,954	*	445,466	742,968	
1979-----	*	64,128	126,671	*	452,699	737,647	*	496,827	864,318	
1980-----	*	36,346	100,346	*	377,194	652,802	*	415,580	753,148	
1981-----	*	55,552	157,470	*	386,354	682,026	*	441,910	840,096	
1982-----	*	64,852	245,676	*	647,040	1,171,734	*	511,892	1,417,412	

\* NOT REPORTED.

## FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
		COASTWISE		INTERNAL					
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
TOTAL-----	9,439,240	2,565,691	135,686	5,000,318	1,663,840	205,253	1,596,170	173,233	
0132 BANANAS AND PLANTAINS-----	1,928	1,928	-----	-----	-----	-----	-----	-----	
0161 ANIMALS AND PRODUCTS, NEC-----	40	-----	-----	-----	-----	-----	40	-----	
0911 FRESH FISH, EXCEPT SHELLFISH-----	3,248	366	-----	-----	-----	2,882	168	-----	
0912 SHELLFISH, EXCEPT PREPARED-----	171	3	-----	-----	-----	-----	-----	-----	
1311 CRUDE PETROLEUM-----	4,631,087	2,346,367	-----	1,936,357	22,073	129,073	27,852	169,365	
1411 LIMESTONE-----	16,563	16,563	-----	-----	-----	-----	560	-----	
1442 SAND, GRAVEL, CRUSHED ROCK-----	560	-----	-----	-----	-----	-----	560	-----	
1491 SALT-----	200	-----	-----	-----	200	-----	-----	-----	
2411 LOGS-----	75,731	39,104	36,627	-----	-----	-----	92,627	-----	
2412 RAFTED LOGS-----	92,627	-----	-----	-----	-----	-----	1,200	-----	
2414 TIMBER, POSTS, POLES, PILING-----	133	-----	-----	133	-----	-----	-----	-----	
2421 LUMFR-----	1,292	27	-----	-----	65	-----	-----	-----	
2491 WOOD MANUFACTURES, NEC-----	667	-----	-----	667	-----	-----	-----	-----	
2511 FURNITURE AND FIXTURES-----	84	-----	4	-----	-----	-----	80	-----	
2691 PULP AND PAPER PRODUCTS, NEC-----	1	1	-----	-----	-----	-----	-----	-----	
2819 BASIC CHEMICALS AND PROD, NEC-----	7,927	-----	-----	7,927	-----	-----	-----	-----	
2821 PLASTIC MATERIALS-----	391	391	-----	-----	-----	-----	-----	-----	
2891 MISCELLANEOUS CHEMICAL PROD-----	11,633	-----	6,763	8,870	-----	-----	-----	-----	
2911 GASOLINE-----	764,422	62,862	118,587	761,271	3,854	217,848	-----	-----	
2912 JET FUEL-----	101,619	-----	8,530	86,906	-----	5,983	-----	-----	
2913 KEROSENE-----	17,311	-----	17,311	-----	-----	-----	-----	-----	
2914 DISTILLATE FUEL OIL-----	822,813	39,009	324,988	221,508	29,610	207,098	-----	-----	
2915 RESIDUAL FUEL OIL-----	2,008,255	42,135	704,907	874,761	34,123	808,461	3,868	-----	
2916 LUBRICATING OILS AND GREASES-----	97,288	96,040	-----	1,196	-----	62	-----	-----	
2917 NAPHTHA, PETROLEUM SOLVENTS-----	81,255	-----	-----	75,770	5,481	-----	140	-----	
2921 LIQUEFIED GASES-----	140	-----	-----	-----	-----	-----	520	-----	
3011 RUBBER AND WISC PLASTIC PROD-----	30	30	-----	-----	-----	-----	-----	-----	
3240 BUILDING CEMENT-----	521	-----	-----	-----	1	-----	-----	-----	
3291 MISC NONMETALLIC MINERAL PROD-----	8	-----	-----	-----	R	-----	-----	-----	
3322 COPPER ALLOYS, UNWORKED-----	2	2	-----	-----	-----	-----	-----	-----	
3323 LEAD AND ZINC, UNWORKED-----	5	5	-----	-----	-----	-----	-----	-----	
3411 FABRICATED METAL PRODUCTS-----	3,945	30	-----	8,173	-----	742	-----	-----	
3511 MACHINERY, EXCEPT ELECTRICAL-----	4,014	-----	-----	1,220	-----	2,798	-----	-----	
3611 ELECTRICAL MACH & EQUIP-----	846	671	-----	110	-----	65	-----	-----	
3711 MOTOR VEHICLES, PARTS, EQUIP-----	2,184	424	-----	400	-----	1,320	-----	-----	
3791 MISC TRANSPORTATION EQUIPMENT-----	757	-----	-----	757	-----	-----	-----	-----	
3911 MISC MANUFACTURED PRODUCTS-----	1	1	-----	-----	-----	-----	-----	-----	
4011 IRON AND STEEL SCRAP-----	153	153	-----	-----	-----	-----	-----	-----	
4012 NONFERROUS METAL SCRAP-----	22	22	-----	-----	-----	-----	-----	-----	
4029 WASTE AND SCRAP, NEC-----	628,800	-----	-----	25	-----	628,800	40	-----	
4112 COMMODITIES, NEC-----	766	701	-----	-----	-----	-----	-----	-----	

## BELLINGHAM BAY AND HARBOR, WASH.

SECTION INCLUDED: BELLINGHAM BAY AND CHUCKANUT BAY FROM THE WHARF OF THE OLYMPIC PORTLAND CEMENT COMPANY ON THE NORTH TO AND INCLUDING CHUCKANUT INTERISLAND FERRY SLIP ON THE SOUTH. CONTROLLING DEPTHS: WHATCOM CREEK WATERWAY, 13.0 TO 29.3 FEET; SQUALICUM CREEK WATERWAY 28.9 FEET, FROM DEEP WATER TO TURNING BASIN, 25.6 FEET IN TURNING BASIN, 13.2 FEET FROM STA. 16 + 00 TO 5 + 40; I & J ST. WATERWAY, 11.8 FT., PROJECT DEPTH: WHATCOM CREEK WATERWAY, 18 TO 30 FEET; SQUALICUM CREEK WATERWAY, 26 FEET OVER THE ENTIRE WATERWAY. I & J STREET WATERWAY 18 FEET OVER THE ENTIRE WATERWAY. ALL DEPTHS REFER TO MILLS.

## COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973-----	3,282,597	282,822	3,565,419	1978-----	1,496,037	60,780	1,556,826
1974-----	1,452,727	492,934	1,945,661	1979-----	1,610,947	201,707	2,131,654
1975-----	1,421,834	461,650	1,483,484	1980-----	1,824,748	222,163	2,047,351
1976-----	1,594,376	165,219	1,760,595	1981-----	1,263,819	218,166	1,481,985
1977-----	1,639,750	78,658	1,718,417	1982-----	1,790,888	186,888	1,977,778

**SEATTLE, WA, DISTRICT**  
BELLINGHAM BAY AND HARBOR, WASH.--CONTINUED

73

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			
		IMPORTS	EXPORTS	COASTWISE		INTERNAL	
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
TOTAL-----	1,977,776	401,734	219,464	36,825	180,954	907,287	227,512
0121 TORRACCO, LEAF-----	2	2	-----	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	472	-----	472	-----	-----	-----	-----
0661 FOREST PRODUCTS, NEC-----	2	2	-----	-----	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	16,898	1,821	779	-----	-----	14,248	169
0912 SHELLFISH, EXCEPT PREPARED-----	199	-----	-----	-----	-----	-----	-----
1051 ALUMINUM ORES, CONCENTRATES-----	35,825	35,825	-----	-----	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	9,275	-----	-----	-----	-----	4,275	-----
1491 SALT-----	143,128	107,128	-----	36,000	-----	-----	-----
2014 TALLOW, ANIMAL FATS AND OILS-----	3,168	-----	3,168	-----	-----	-----	-----
2022 DRIED MILK AND CREAM-----	3,005	-----	3,005	-----	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	861	17	19	825	-----	-----	-----
2034 VEGETABLES AND PREP, NEC-----	10	10	-----	-----	-----	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	20	20	-----	-----	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	70	20	-----	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	17	17	-----	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	33	33	-----	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	94	94	-----	-----	-----	-----	-----
2311 APPAREL-----	16	16	-----	-----	-----	-----	-----
2411 LOGS-----	14,290	-----	14,290	-----	-----	-----	-----
2412 RAFTED LOGS-----	186,888	-----	-----	-----	-----	165,985	20,903
2413 FUEL WOOD, CHARCOAL, WASTES-----	12,637	9,423	-----	-----	-----	3,714	-----
2416 WOOD CHIPS, STAVES, HOLDINGS-----	269,090	244,042	-----	-----	5,939	-----	25,057
2421 LUMBER-----	6,242	7	516	-----	-----	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	2	2	-----	-----	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	26	26	-----	-----	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	54	54	-----	-----	-----	-----	-----
2611 PULP-----	60,409	-----	60,409	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	6	6	-----	-----	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	2	2	-----	-----	-----	-----	-----
2810 SODIUM HYDROXIDE-----	37,552	-----	-----	36,000	-----	-----	1,152
2813 ALCOHOLS-----	5,503	-----	-----	5,503	-----	-----	-----
2818 SULPHURIC ACID-----	3,300	-----	-----	3,300	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	5,899	5A	5,406	-----	435	-----	-----
2841 SOAP-----	34,937	-----	34,937	-----	-----	-----	-----
2861 CUM AND WOOD CHEMICALS-----	111,426	-----	-----	21,948	-----	49,478	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	10,801	1	-----	10,800	-----	-----	-----
2911 GASOLINE-----	53,112	-----	-----	-----	-----	33,112	-----
2912 JET FUEL-----	26,039	-----	-----	28,039	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	122,240	-----	-----	71,990	22,017	28,233	-----
2915 RESIDUAL FUEL OIL-----	2,320	-----	-----	-----	2,320	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	1	1	-----	-----	-----	-----	-----
3241 BUILDING CEMENT-----	87,746	-----	-----	-----	600	-----	47,746
3291 MISC NONMETALLIC MINERAL PROD-----	600	-----	-----	-----	-----	-----	-----
3312 SLAG-----	5,410	-----	-----	-----	-----	5,410	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	1,494	1,494	-----	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TIRE-----	1,705	928	777	-----	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	563	563	-----	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	95,380	-----	95,380	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	77	77	-----	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	537	38	499	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	1	-----	1	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	2	2	-----	-----	-----	-----	-----
4020 WASTE AND SCRAP, NEC-----	626,400	-----	-----	-----	-----	626,400	-----
4112 COMMODITIES, NEC-----	7	7	-----	-----	-----	-----	-----

## Waterborne Commerce of the United States, 1982

## OTHER HARBOURS AND WATERWAYS

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL MILES	PASSENGERS
PROJECT				
BLAINE HARBOR, WASH.	0911 FRESH FISH, EXCEPT SHELLFISH 0912 SHELLFISH, EXCEPT PREPARED	5,101 200		
	TOTAL	5,301		
COLUMBIA RIVER BETWEEN KENNEWICK AND KETTLE FALLS, WASH.	2412 RAFTED LOGS 3511 MACHINERY, EXCEPT ELECTRICAL	42,374 134		
	TOTAL	42,508	1,567.724	11
FLATHEAD LAKE, MONT.	NO COMMERCE REPORTED			
HOUDSON RIVER, WASH.	0911 FRESH FISH, EXCEPT SHELLFISH 0912 SHELLFISH, EXCEPT PREPARED 2412 RAFTED LOGS	2,307 2 35,015		
	TOTAL	37,324	62,319	
KOOTENAI RIVER, IDAHO AND MONT.	NO COMMERCE REPORTED			
LEAH RIVER, WASH.	0911 FRESH FISH, EXCEPT SHELLFISH 0912 SHELLFISH, EXCEPT PREPARED 2412 RAFTED LOGS 2911 GASOLINE 2914 DISTILLATE FUEL OIL	2,014 24 1,515 1,413 1,507		
	TOTAL	6,474		
QUILLAYUTE RIVER, WASH.	0911 FRESH FISH, EXCEPT SHELLFISH 0912 SHELLFISH, EXCEPT PREPARED	124 7		
	TOTAL	124	124	
SKAGIT RIVER, WASH.	4029 WASTE AND SCRAP, NEC	2,400	36,000	
STILLAGNA ISH RIVER, WASH.	NO COMMERCE REPORTED			
WATERWAY CONNECTING PORT TOWNSEND BAY AND DAK HAY, WASH.	2413 FUEL WOOD, CHARCOAL, WASTES 2416 WOOD CHIPS, STAVES, MOLDINGS	2,874 5,755		
	TOTAL	8,629	8,629	
WILLAPA RIVER AND HARBOR, AND NASSELLE RIVER, WASH.	0911 FRESH FISH, EXCEPT SHELLFISH 0912 SHELLFISH, EXCEPT PREPARED	504 2,690		
	TOTAL	3,194	41,285	
NONPROJECT				
COEUR D'ALENE LAKE AND ST. JOE RIVER, IDAHO	2412 RAFTED LOGS	497,725	9,922,053	
OTHER PUGET SOUND AREA PORTS, WASH. (NET)	0141 FRESH AND FROZEN VEGETABLES 0161 ANIMALS AND PRODUCTS, NEC 0911 FRESH FISH, EXCEPT SHELLFISH 0912 SHELLFISH, EXCEPT PREPARED 1051 ALUMINUM OXIDES, CONCENTRATES 1311 CRUDE PETROLEUM 1411 LIMESTONE 1442 SAND, GRAVEL, CRUSHED ROCK 1451 CLAY 1499 NONMETALLIC MINERALS, NEC 2031 FISH AND SHELLFISH, PREPARED 2030 PREP FRUIT AND VEG JUICE, NEC 2411 LOGS 2412 RAFTED LOGS 2413 FUEL WOOD, CHARCOAL, WASTES 2414 TIMBER, POSTS, POLES, PILING 2416 WOOD CHIPS, STAVES, MOLDINGS 2421 LUMBER 2431 VENEER, PLYWOOD, WORKED WOOD 2491 WOOD MANUFACTURES, NEC 2511 FURNITURE AND FIXTURES 2611 PILLS 2631 PAPER AND PAPERBOARD 2891 MISCELLANEOUS CHEMICAL PROD 2911 GASOLINE 2912 JET FUEL 2913 KEROSENE 2914 DISTILLATE FUEL OIL 2915 RESTORATIVE FUEL OIL 2916 LUBRICATING OILS AND GREASES 2918 ASPHALT, TAR, AND PITCHES 2921 LIQUEFIED GASES 2991 PETROLEUM AND COAL PROD, NEC 3011 RUBBER AND MISC PLASTIC PROD 3241 BUILDING CEMENT 3291 MISC NONMETALLIC MINERAL PROD 3312 SLAG 3321 NONFERROUS METALS, NEC 3411 FABRICATED METAL PRODUCTS 3511 MACHINERY, EXCEPT ELECTRICAL 3611 ELECTRICAL MACH AND EQUIP 3711 AUTOM VEHICLES, PARTS, FO. 3731 SHIPS AND BOATS 3911 MISC MANUFACTURED PRODUCTS 4131 IRON AND STEEL SCRAP 4199 VARIOUS SCRAP, NEC	547 40 1,266 1,511 362,863 12,121,567 3,916 2,622,601 187,596 480 220 21 2,667 974,553 400 7,900 60,934 1,527 365 1 80 730 21 252 611,990 743,600 2,857 411,036 1,275,342 54,477 15 140 15,421 4 520 15,772 4,255 4 2,006 3,487 15 1,424 295,024 41 220 225		

## SEATTLE, WA, DISTRICT

75

## OTHER HARBOURS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMUNITY	TONS	TOTAL TONE MILES	PASSENGERS
NONPROJECT--CONTINUED				
OTHER PUGET SOUND AREA PORTS, WASH. (I&T) (CONTINUED)-----	4112 COMMUNITIES, *FC-----	790-----	-----	-----
	TOTAL-----	20,188,722-----	-----	19,758,355

## ALASKA DISTRICT

## KETCHIKAN HARBOR, ALASKA

SECTION INCLUDED: TONGASS NARROWS FROM POINT HIGGINS ON THE NORTH TO MOUNTAIN POINT ON THE SOUTH AND INCLUDING HERRING BAY ON GEORGE INLET. CONTROLLING DEPTHS: MAIN HARBOR, ADEQUATE; SMALL BOAT BASINS, KETCHIKAN CREEK, 10.0 FEET; BAR POINT, 15 FEET. PROJECT DEPTHS: NO PROJECT DEPTH FOR MAIN HARBOR; SMALL BOAT BASINS, 10 AND 15 FEET. ALL DEPTHS REFERRED TO MLLW.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	ADDITIONAL TRAFFIC	
					GENERAL VEHICLES	FERRY PASSENGERS
1973-----	1,076,473	1,090,820	2,167,293	50,019	11,034	50,019
1974-----	950,675	1,207,699	2,162,374	230,670	48,513	230,670
1975-----	852,762	709,705	1,562,507	62,146	12,201	62,146
1976-----	923,043	636,024	1,559,067	625,180	125,239	625,180
1977-----	1,139,137	824,589	1,965,726	346,704	64,345	346,704
1978-----	1,293,351	679,481	1,972,834	325,836	40,733	325,836
1979-----	1,700,642	501,375	2,202,017	313,108	58,703	313,108
1980-----	1,095,316	671,857	2,767,173	371,930	80,053	371,930
1981-----	1,455,444	424,051	1,879,495	382,727	82,018	382,727
1982-----	1,473,009	292,010	1,765,019	393,573	82,825	393,573

## FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
		IMPORTS	EXPORTS	COASTWISE		INTERNAL			
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
TOTAL-----	1,765,019	67,435	618,004	420,742	55,815	330,633	202,004	70,386	
0122 HAY AND FODDER-----	2	-----	-----	-----	-----	-----	-----	2	
0181 FRESH AND FROZEN VEGETABLES-----	298	-----	298	-----	-----	-----	-----	-----	
0191 MISCELLANEOUS FARM PRODUCTS-----	485	-----	485	-----	-----	-----	-----	-----	
0911 FRESH FISH, EXCEPT SHELLFISH-----	6,387	47	6,065	152	55	20	48	-----	
1011 IRON ORE AND CONCENTRATES-----	51,315	51,315	-----	-----	-----	-----	-----	-----	
1482 SAND, GRAVEL, CRUSHED ROCK-----	9,513	5,624	-----	-----	-----	-----	-----	-----	
1491 SALT-----	560	-----	540	-----	-----	-----	3,889	20	
1492 SULPHUR, DRY-----	5,931	-----	5,931	-----	-----	-----	-----	-----	
2011 MEAT, FRESH, CHILLED, FROZEN-----	15	-----	15	-----	-----	-----	-----	-----	
2031 FISH AND SHELLFISH, PREPARED-----	13,801	-----	240	9	13,546	-----	-----	-----	
2039 PREP FRUIT AND VEG JUICE, NEC-----	633	-----	25	608	-----	-----	-----	-----	
2049 GRAIN MILL PRODUCTS, NEC-----	10	-----	10	-----	-----	-----	-----	-----	
2081 ALCOHOLIC BEVERAGES-----	1,456	-----	1,453	-----	-----	-----	3	-----	
2094 GROCERIES-----	6,303	-----	6,303	-----	-----	-----	-----	-----	
2099 MISCELLANEOUS FOOD PRODUCTS-----	9,602	-----	9,535	60	-----	-----	7	-----	
2111 TORACCO MANUFACTURES-----	1	-----	1	-----	-----	-----	-----	-----	
2211 BASIC TEXTILE PRODUCTS-----	123	-----	120	2	-----	-----	-----	-----	
2411 LOGS-----	336,705	336,686	-----	-----	-----	-----	19	-----	
2412 RAFTED LOGS-----	292,010	-----	-----	-----	287,063	4,047	217	-----	
2414 TIMBER, POSTS, POLES, PILING-----	241	-----	24	-----	-----	-----	-----	-----	
2416 WOOD CHIPS, STAVES, MOLDINGS-----	130,451	-----	19,270	-----	41,045	-----	70,136	-----	
2421 LUMBER-----	176,783	45	160,574	10,443	4,988	-----	733	-----	
2431 VENEER, PLYWOOD, WORKED WOOD-----	314	-----	187	-----	-----	-----	127	-----	
2491 WOOD MANUFACTURES, NEC-----	372	23	230	62	2	55	-----	-----	
2511 FURNITURE AND FIXTURES-----	1,258	-----	956	284	8	10	-----	-----	
2611 PULP-----	119,360	95,163	-----	24,197	-----	-----	-----	-----	
2621 STANDARD NEWSPRINT PAPER-----	129	-----	127	2	-----	-----	-----	-----	
2631 PAPER AND PAPERBOARD-----	187	-----	187	-----	-----	-----	-----	-----	
2691 PULP AND PAPER PRODUCTS, NEC-----	6,398	-----	957	5,441	-----	-----	-----	-----	
2811 SODIUM HYDROXIDE-----	15,341	-----	15,341	-----	-----	-----	-----	-----	
2816 SULPHURIC ACID-----	75	-----	75	-----	-----	-----	-----	-----	
2818 BASIC CHEMICALS AND PROD, NEC-----	2,920	1,147	1,727	-----	-----	46	-----	-----	
2821 PLASTIC MATERIALS-----	1	-----	1	-----	1	-----	-----	-----	
2841 SOAP-----	148	-----	148	-----	-----	-----	4	-----	
2851 PAINTS-----	96	-----	92	-----	-----	-----	-----	-----	
2871 NITROGENOUS CHEM FERTILIZERS-----	26	-----	26	-----	-----	-----	-----	-----	
2879 FERTILIZER AND MATERIALS, NEC-----	9	-----	9	-----	-----	-----	-----	-----	
2891 MISCELLANEOUS CHEMICAL PROD-----	5,518	-----	5,493	-----	-----	25	-----	-----	
2911 GASOLINE-----	90,554	-----	54,306	423	-----	35,825	-----	-----	
2912 JET FUEL-----	54,583	-----	36,163	104	-----	18,316	-----	-----	
2915 DISTILLATE FUEL OIL-----	269,058	-----	143,855	1,259	-----	123,044	-----	-----	
2916 LUBRICATING OILS AND GREASES-----	84,500	-----	84,500	-----	-----	-----	58	-----	
2918 ASPHALT, TAR, AND PITCHES-----	56	-----	56	-----	-----	6	-----	-----	
2920 COKE, PETROLEUM COKE-----	1,596	-----	1,590	-----	-----	-----	59	-----	
2921 LIQUEFIED GASES-----	1,217	-----	1,217	-----	-----	-----	-----	-----	
2951 ASPHALT BUILDING MATERIALS-----	2,458	2,397	2	-----	-----	-----	-----	-----	
2991 PETROLEUM AND COAL PROD, NEC-----	3,054	-----	3,039	13	-----	6	-----	-----	
3011 RUBBER AND MISC PLASTIC PROD-----	603	-----	459	112	-----	32	-----	-----	
3211 GLASS AND GLASS PRODUCTS-----	51	-----	42	0	-----	-----	87	-----	
3241 BUILDING CEMENT-----	13,232	6,700	6,010	1	-----	521	-----	-----	
3251 STRUCTURAL CLAY PRODUCTS-----	7	-----	7	-----	-----	-----	5	-----	
3291 MISC NONMETALLIC MINERAL PROD-----	1,168	-----	445	39	-----	684	-----	-----	
3315 IRON, STEEL SHAPES, EXC SHEET-----	163	-----	163	-----	-----	163	-----	-----	
3316 IRON AND STEEL PLATES, SHEETS-----	35	-----	35	3	-----	32	-----	-----	
3317 IRON AND STEEL PIPE AND TUBE-----	87	-----	87	-----	-----	87	-----	-----	
3319 IRON AND STEEL PRODUCTS, NEC-----	95	-----	33	21	-----	41	-----	-----	
3322 NONFERROUS METALS, NEC-----	35	-----	30	-----	-----	5	-----	-----	
3322 COPPER ALLOYS, UNWORKED-----	7	-----	7	-----	-----	7	-----	-----	
3411 FABRICATED METAL PRODUCTS-----	16,861	2	12,526	848	160	3,325	-----	-----	
3511 MACHINERY, EXCEPT ELECTRICAL-----	15,181	-----	7,852	2,036	441	4,202	250	-----	
3611 ELECTRICAL MACH AND EQUIP-----	1,131	-----	1,011	17	39	64	-----	-----	
3711 MOTOR VEHICLE\$ PARTS, EQUIP-----	3,390	-----	1,995	394	180	821	-----	-----	
3731 SHIPS AND BOATS-----	48	1	23	3	7	14	-----	-----	
3791 MISC TRANSPORTATION EQUIPMENT-----	319	-----	16	17	42	244	-----	-----	

## ALASKA DISTRICT

KETCHIKAN HARBOR, ALASKA--CONTINUED

77

FREIGHT TRAFFIC, 1982--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	COASTWISE	INTERNAL	
3011 MISC MANUFACTURED PRODUCTS-----	1,032	-----	-----	902	76	50
4011 IRON AND STEEL SCRAP-----	20	-----	-----	20	-----	-----
4112 COMMODITIES, NEC-----	9,123	134	-----	3,762	297	1,588
4119 EMPTY CONTAINERS-----	534	-----	-----	19	478	37

## WRANGELL HARBOR, ALASKA

SECTION INCLUDED: SHORELINE OF WRANGELL ISLAND FROM THE AIRPLANE LANDING NEAR THE BASE OF POINT SHEKEFETI TO POINT HIGHFIELD ON THE NORTH. CONTROLLING DEPTHS: MAIN AND INNER HARBOR 10 FEET. PROJECT DEPTHS: BOTH MOORING BASINS, 10 FEET AT MLLW.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	ADDITIONAL TRAFFIC	
					GENERAL FERRY VEHICLES	PASSENGER
1973-----	631,853	539,786	1,171,639	17,480	3,120	17,480
1974-----	529,954	493,369	1,023,373	18,240	3,637	18,280
1975-----	425,342	530,828	956,170	19,048	5,034	19,048
1976-----	427,348	399,998	827,347	16,814	3,654	16,814
1977-----	404,556	225,172	629,728	13,545	3,355	13,545
1978-----	302,127	204,695	506,822	15,076	3,502	15,076
1979-----	308,884	-----	308,884	7,701	1,713	7,701
1980-----	406,795	103,703	550,498	16,793	3,478	16,793
1981-----	318,966	323,727	642,693	15,361	3,643	15,381
1982-----	553,765	41,531	595,296	17,014	4,028	17,014

## FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		INTERNAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	
TOTAL-----	595,296	5	452,859	10,826	1,609	74,321
0129 FIELD CROPS, NEC-----	2	-----	-----	7	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	1	-----	-----	1	-----	-----
0191 MISCELLANEOUS FARM PRODUCTS-----	40	-----	-----	80	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	1,214	5	1,181	12	-----	16
1442 SAND, GRAVEL, CRUSHED ROCK-----	7,800	-----	-----	-----	-----	7,800
1491 SALT-----	31	-----	-----	31	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	618	-----	19	1	598	-----
2081 ALCOHOLIC BEVERAGES-----	5	-----	-----	5	-----	-----
2094 GROCERIES-----	1,376	-----	-----	1,376	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	2,402	-----	-----	2,402	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	8	-----	-----	8	-----	-----
2411 LOGS-----	320,871	-----	320,871	-----	-----	-----
2412 RAFTED LOGS-----	41,531	-----	-----	-----	41,531	-----
2416 WOOD CHIPS, STAVES, HOLDINGS-----	53,697	-----	-----	-----	-----	53,697
2421 LUMBER-----	144,982	-----	130,788	1,236	568	12,390
2431 VENEER, PLYWOOD, WORKED WOOD-----	11	-----	-----	11	-----	-----
2491 WOOD MANUFACTURES, NEC-----	30	-----	-----	30	-----	-----
2511 FURNITURE AND FIXTURES-----	116	-----	-----	90	28	-----
2631 PAPER AND PAPERBOARD-----	4	-----	-----	4	-----	-----
2661 PULP AND PAPER PRODUCTS, NEC-----	39	-----	-----	39	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	220	-----	-----	220	-----	-----
2851 PAINTS-----	13	-----	-----	13	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	1	-----	-----	1	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	5	-----	-----	5	-----	-----
2911 GASOLINE-----	2,991	-----	-----	-----	2,991	-----
2912 JET FUEL-----	1,598	-----	-----	-----	1,598	-----
2914 DISTILLATE FUEL OIL-----	7,427	-----	-----	-----	7,427	-----
2921 LIQUEFIED GASES-----	101	-----	-----	120	21	-----
2991 PETROLEUM AND COAL PROD, NEC-----	301	-----	-----	301	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	48	-----	-----	41	7	-----
3211 GLASS AND GLASS PRODUCTS-----	3	-----	-----	1	2	-----
3241 BUILDING CEMENT-----	806	-----	-----	806	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	5	-----	-----	3	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	32	-----	-----	32	-----	-----
3321 NONFERROUS METALS, NEC-----	13	-----	-----	13	-----	-----
3411 FABRICATED METAL PRODUCTS-----	1,217	-----	-----	1,014	86	113
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,749	-----	-----	1,117	181	351
3611 ELECTRICAL MACH AND EQUIP-----	100	-----	-----	80	2	18
3711 MOTOR VEHICLES, PARTS, EQUIP-----	325	-----	-----	251	53	21
3731 SHIPS AND BOATS-----	3	-----	-----	2	-----	1
3791 MISC TRANSPORTATION EQUIPMENT-----	37	-----	-----	14	4	15
3911 MISC MANUFACTURED PRODUCTS-----	231	-----	-----	191	-----	40
4011 IRON AND STEEL SCRAP-----	2	-----	-----	2	-----	-----
4112 COMMODITIES, NEC-----	2,130	-----	-----	1,225	21	70
4119 EMPTY CONTAINERS-----	40	-----	-----	40	-----	-----

# Waterborne Commerce of the United States, 1982

WRANGELL NARROWS, ALASKA

SECTION INCLUDED: ENTIRE 26 MILE LONG WATERWAY, CONTROLLING DEPTHS: 26 FEET IN THE ANCHORAGE BASIN AND 24 FEET IN THE AUTHORIZED CHANNEL WITH EXCEPTION OF THE AREA NEAR COLORADO REEF WHERE A DEPTH OF 21.6 FEET EXISTS. PROJECT DEPTHS: 27 FEET THROUGH PETERSBURG BAR; 26 FEET IN ANCHORAGE BASIN, VICINITY OF MILE 14; ALL OTHER, 24 FEET. ALL DEPTHS REFER TO MILLS.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973-----	218,827	14,790	233,617	1978-----	569,631	388,426	958,055
1974-----	489,387	45,047	534,434	1979-----	583,939	21,263	605,202
1975-----	364,730	101,040	465,770	1980-----	710,908	299,157	1,010,065
1976-----	352,645	221,955	574,600	1981-----	595,969	148,998	744,967
1977-----	631,073	83,431	714,504	1982-----	545,367	16,426	561,793

\* PASSENGER=30,771.

FREIGHT TRAFFIC, 1982

FOREIGN

(SHORT TONS)

COMMODITY	TOTAL	IMPORTS	EXPORTS
TOTAL-----	1,105	53	1,105
0911 FRESH FISH, EXCEPT SHELLFISH-----	1,105	-----	1,105
2691 PULP AND PAPER PRODUCTS, NEC-----	7	7	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	46	46	-----

TON-MILES, FOREIGN, 25,476.

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE				INTERNAL			
		RECEIPTS	SHIPMENTS	THROUGH		INBOUND	OUTBOUND	THROUGH	
				UPBOUND	DOWNBOUND			UPBOUND	DOWNBOUND
TOTAL-----	560,635	12,462	15,246	249,364	33,818	37,185	20,781	189,796	2,023
0122 HAY AND FODDER-----	182	-----	-----	182	-----	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	208	15	-----	193	-----	-----	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	341	-----	292	-----	49	-----	-----	-----	-----
0191 MISCELLANEOUS FARM PRODUCTS-----	235	54	-----	181	-----	-----	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	834	102	103	430	91	16	24	46	20
1091 NONFERROUS ORES, CONCENT, NEC-----	68	-----	-----	68	-----	-----	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	46	-----	-----	-----	-----	-----	-----	46	-----
1491 SALT-----	8,147	774	-----	7,364	9	-----	-----	-----	-----
1492 SULPHUR, DRY-----	4,749	-----	-----	4,749	-----	-----	-----	-----	-----
1494 GYPSUM, CRUDE AND PLASTERB-----	119	-----	-----	119	-----	-----	-----	-----	-----
2011 MEAT, FRESH, CHILLED, FROZEN-----	34	-----	-----	31	3	-----	-----	-----	-----
2021 DAIRY PRODUCTS, NEC-----	8	-----	-----	8	-----	-----	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	33,258	60	13,516	4,284	15,396	2	-----	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	42	-----	-----	39	3	-----	-----	-----	-----
2042 ANIMAL FEEDS-----	36	-----	-----	36	-----	-----	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	335	5	-----	330	-----	-----	-----	-----	-----
2061 ALCOHOLIC BEVERAGES-----	8,172	616	-----	7,556	-----	-----	-----	-----	-----
2094 GROCERIES-----	21,708	1,665	-----	19,930	113	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	13,655	1,153	-----	12,502	-----	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	166	166	-----	-----	-----	-----	-----	-----	-----
2412 RAFTED LOGS-----	16,426	-----	-----	-----	16,426	-----	-----	-----	-----
2413 TIMBER, POSTS, POLES, PILING-----	1,379	410	-----	960	-----	-----	-----	-----	-----
2416 WOOD CHIPS, STAVES, MOLDINGS-----	63,416	-----	-----	130	-----	7,829	55,587	-----	-----
2421 LUMBER-----	35,986	1,046	830	21,322	130	12,400	218	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	5,606	202	-----	5,391	10	-----	3	-----	-----
2491 WOOD MANUFACTURES, NEC-----	2,949	149	-----	2,660	-----	-----	140	-----	-----
2511 FURNITURE AND FIXTURES-----	1,761	120	8	1,113	515	-----	-----	-----	5
2611 PULP-----	6,901	-----	-----	6,901	-----	-----	-----	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	1,268	-----	-----	965	303	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	177	15	4	110	48	-----	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	1,635	439	-----	1,147	49	-----	-----	-----	-----
2610 SODIUM HYDROXIDE-----	17,563	-----	-----	17,563	-----	-----	-----	-----	-----
2619 BASIC CHEMICALS AND PROD, NEC-----	8,522	65	-----	8,408	5	-----	44	-----	-----
2851 PAINTS-----	607	60	-----	566	1	-----	-----	-----	-----
2677 FERTILIZER AND MATERIALS, NEC-----	176	1	-----	175	-----	-----	-----	-----	-----
2691 MISCELLANEOUS CHEMICAL PROD-----	6,013	13	-----	4,986	-----	64	950	-----	-----
2911 GABOIL-----	34,659	-----	-----	3,790	-----	2,567	27,976	326	-----
2912 JET FUEL-----	17,586	-----	-----	1,489	401	1,329	14,044	321	-----
2914 DISTILLATE FUEL OIL-----	108,152	175	-----	6,322	-----	16,148	86,968	539	-----
2915 RESIDUAL FUEL OIL-----	39,819	-----	-----	39,723	96	-----	-----	-----	-----
2916 LUBRICATING OILS AND GREASES-----	3	-----	-----	-----	-----	-----	3	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	6,093	-----	-----	6,087	-----	-----	6	-----	-----
2921 LIQUEFIED GASES-----	624	278	-----	303	-----	-----	43	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	1,472	43	-----	1,428	1	-----	-----	-----	-----
2991 PETROLIUM AND COAL PROD, NEC-----	1,733	273	-----	1,681	19	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	304	19	1	267	11	-----	6	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	46	-----	-----	32	12	-----	-----	-----	-----
3241 BUILDING CEMENT-----	4,486	496	-----	3,648	-----	-----	140	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	736	14	-----	722	-----	-----	-----	-----	-----
3271 LIME-----	41	-----	-----	41	-----	-----	-----	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	536	-----	-----	536	-----	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	10,342	410	-----	9,790	11	-----	119	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	49	-----	-----	-----	-----	-----	59	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	20	-----	-----	-----	-----	-----	20	-----	-----

ALASKA DISTRICT

79

WRANGELL NARROWS, ALASKA--CONTINUED

FRIGHT TRAFFIC, 1962--CONTINUED

DOMESTIC--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE				INTERNAL			
		RECEIPTS	SHIPMENTS	THROUGH UPBOUND	DOWNBOUND	INBOUND	OUTBOUND	UPBOUND	DOWNBOUND
3317 IRON AND STEEL PIPE AND TUBE	80	-----	-----	80	-----	-----	-----	36	-----
3319 IRON AND STEEL PRODUCTS, NEC	27	-----	-----	13	-----	-----	-----	14	-----
3321 NONFERROUS METALS, NEC	170	-----	-----	169	1	-----	-----	-----	-----
3322 COPPER ALLOYS, UNNAMED	4	-----	-----	-----	-----	-----	-----	4	-----
3411 FABRICATED METAL PRODUCTS	11,212	1,730	134	6,501	129	-----	-----	2,561	157
3511 MACHINERY, EXCEPT ELECTRICAL	6,975	166	142	2,557	1,401	25	312	1,998	374
3611 ELECTRICAL MACH AND EQUIP	489	70	2	304	23	-----	-----	23	65
3711 MOTOR VEHICLES, PARTS, EQUIP	6,131	121	17	4,252	1,487	-----	5	237	12
3731 SHIPS AND BOATS	376	9	-----	322	39	-----	3	5	-----
3791 WISC TRANSPORTATION EQUIPMENT	1,847	30	52	1,102	579	-----	7	59	18
4011 IRON AND STEEL SCRAP	2,202	-----	3	18	2,181	-----	-----	-----	-----
4112 COMMODITIES, NEC	40,172	1,482	91	34,584	2,620	570	194	441	176
4119 EMPTY CONTAINERS	1,517	4	51	276	1,170	-----	-----	-----	10
TON-MILES, DOMESTIC	13,033,692	-----	-----	-----	-----	-----	-----	-----	-----
TONS, ALL TRAFFIC	561,702	-----	-----	-----	-----	-----	-----	-----	-----
TON-MILES, ALL TRAFFIC	13,059,168	-----	-----	-----	-----	-----	-----	-----	-----

SITKA HARBOR, ALASKA

SECTION INCLUDED: FROM THE ALASKA LUMBER & PULP CO. MILL IN SILVER BAY ON THE SOUTH TO STARRIGAVEN RAY ON THE NORTH INCLUDING THE SITKA CENTRAL WATERFRONT AND JAPONSKI ISLAND. CONTROLLING DEPTHS: 22 FEET AT MLLW IN WESTERN CHANNEL AND 11 FEET IN SMALL BOAT BASIN. PROJECT DEPTHS: 22 FEET IN WESTERN CHANNEL; 10 FEET IN SMALL BOAT BASIN AND APPROACH CHANNEL. ALL DEPTHS REFER TO MLLW.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1973-----	480,517	347,257	827,774	14,834	1978-----	504,184	388,143	888,327	20,420
1974-----	519,606	450,295	969,901	14,413	1979-----	520,827	-----	520,827	11,666
1975-----	370,084	17,426	387,510	12,081	1980-----	453,229	361,146	1,014,375	32,196
1976-----	615,658	382,074	997,728	23,837	1981-----	534,276	389,835	924,111	33,889
1977-----	551,405	3,889	555,294	16,757	1982-----	395,356	-----	395,356	26,996

ADDITIONAL TRAFFIC

YEAR	CAR FERRY-RAILROAD CARS			GENERAL FERRY		YEAR	CAR FERRY-RAILROAD CARS			GENERAL FERRY	
	EMPTY	LOADED	TOTAL	VEHICLES	PASSENGERS		EMPTY	LOADED	TOTAL	VEHICLES	PASSENGERS
1973-----	-----	-----	*	3,280	14,834	1978-----	-----	-----	*	4,674	20,420
1974-----	-----	-----	*	3,313	14,413	1979-----	-----	-----	*	2,278	11,666
1975-----	-----	-----	*	3,185	12,081	1980-----	-----	-----	*	6,092	32,196
1976-----	-----	-----	*	4,873	23,837	1981-----	-----	-----	*	6,455	33,889
1977-----	-----	-----	*	4,053	16,757	1982-----	-----	-----	*	4,702	26,996

\* CARGO REPORTED AS FREIGHT TRAFFIC.

FRIGHT TRAFFIC, 1962

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN			DOMESTIC			INTERNAL		
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	SHIPMENTS
TOTAL-----	395,356	15,916	109,027	125,363	43,392	101,298	360	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES	80	-----	-----	80	-----	-----	-----	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC	98	-----	-----	49	-----	-----	-----	-----	-----	-----
0191 MISCELLANEOUS FARM PRODUCTS	24	-----	-----	24	-----	-----	-----	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH	1,909	-----	1,096	361	347	56	49	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK	4,800	4,800	-----	40	-----	-----	-----	-----	-----	-----
1491 SALT	11,646	-----	-----	6,176	5,470	-----	-----	-----	-----	-----
1692 SULPHUR, DRY	4,749	-----	-----	4,749	-----	-----	-----	-----	-----	-----
2011 MEAT, FRESH, CHILLED, FROZEN	8	-----	-----	0	4	-----	-----	-----	-----	-----
2021 DAIRY PRODUCTS, NEC	8	-----	-----	8	-----	-----	-----	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED	10,390	-----	-----	2,502	7,886	2	-----	-----	-----	-----
2069 GRAIN MILL PRODUCTS, NEC	40	-----	-----	40	-----	-----	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGES	1,434	-----	-----	1,099	335	-----	-----	-----	-----	-----
2094 GROCERIES	7,804	-----	-----	6,119	1,685	-----	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS	2,289	-----	-----	2,126	123	-----	-----	-----	-----	-----
2011A TIMBER, POSTS, POLES, PILING	41	-----	-----	41	-----	-----	-----	-----	-----	-----
2016 WOOD CHIPS, STAVES, HOLDINGS	71,074	-----	-----	-----	-----	71,074	-----	-----	-----	-----
2021 LUMBER	3,115	-----	-----	2,161	954	-----	-----	-----	-----	-----
2031 VENEER, PLYWOOD, WORKED WOOD	542	-----	-----	660	42	-----	-----	-----	-----	-----
2049 WOOD MANUFACTURES, NEC	1,032	-----	-----	764	266	-----	-----	-----	-----	-----
2511 FURNITURE AND FIXTURES	1,211	-----	-----	659	507	-----	-----	-----	-----	5
2611 PULP	114,832	-----	107,931	-----	6,901	-----	-----	-----	-----	-----
2621 STANDARD NEWSPRINT PAPER	95	-----	-----	11	84	-----	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD	20	-----	-----	11	9	-----	-----	-----	-----	-----

## Waterborne Commerce of the United States, 1982

SITKA HARBOR, ALASKA--CONTINUED

FREIGHT TRAFFIC, 1982--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			
		IMPORTS	EXPORTS	COASTWISE		INTERNAL	
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
2691 PULP AND PAPER PRODUCTS, NEC-----	1,520	-----	983	541	-----	-----	-----
2711 PRINTED MATTER-----	1	1	-----	-----	-----	-----	-----
2810 SODIUM HYDROXIDE-----	17,563	-----	17,563	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	7,300	-----	7,300	80	-----	-----	-----
2851 PAINTS-----	131	-----	128	3	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	37	-----	37	-----	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	4,957	-----	4,959	48	-----	-----	-----
2911 GASOLINE-----	6,218	-----	5,498	5,251	-----	-----	-----
2912 JET FUEL-----	5,498	-----	267	-----	5,251	-----	-----
2914 DISTILLATE FUEL OIL-----	18,652	-----	506	18,144	-----	-----	-----
2915 RESIDUAL FUEL OIL-----	39,819	-----	39,723	96	-----	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	634	-----	617	17	-----	-----	-----
2921 LIQUEFIED GASES-----	38	-----	19	19	-----	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	106	-----	106	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	706	-----	445	261	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	49	14	29	6	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	9	-----	-----	9	-----	-----	-----
3241 BUILDING CEMENT-----	12,694	11,100	992	602	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	145	1	144	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	1,631	-----	1,303	328	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	15	-----	15	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	3,417	-----	2,117	739	521	40	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,717	-----	1,320	1,109	163	125	-----
3611 ELECTRICAL MACH AND EQUIP-----	106	-----	89	17	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	4,169	-----	2,196	1,965	2	6	-----
3731 SHIPS AND BOATS-----	123	-----	95	27	1	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	468	-----	205	259	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	2,543	-----	1,005	1,336	-----	-----	-----
4112 COMMODITIES, NEC-----	26,717	-----	15,389	11,064	129	135	-----
4119 EMPTY CONTAINERS-----	290	-----	122	168	-----	-----	-----

## SERGIUS AND WHITESTONE NARROWS, ALASKA

SECTION INCLUDED: CHANNELS THROUGH SERGIUS AND WHITESTONE NARROWS, CONTROLLING DEPTH: PROJECT DEPTH AVAILABLE EXCEPT FOR PINNACLES TO 23.5 FEET AT WEST FRANCIS ROCK (SERGIUS NARROWS). PROJECT DEPTH: 24 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1973-----	214,886	347,257	562,143	1978-----	328,883	386,143	713,026
1974-----	181,448	442,307	623,755	1979-----	354,119	-----	354,119
1975-----	185,695	17,426	203,121	1980-----	540,676	363,146	901,824
1976-----	170,002	373,861	543,863	1981-----	334,072	221,407	555,479
1977-----	378,571	3,889	382,460	1982-----	261,131	-----	261,131

\* PASSENGERS--26,996.

## FREIGHT TRAFFIC, 1982

## DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE		INTERNAL	
		NORTHBOUND	SOUTHBOUND	THROUGH	
				NORTHBOUND	SOUTHBOUND
TOTAL-----	261,131	62,584	83,141	7,972	107,434
0161 FRESH AND FROZEN VEGETABLES-----	80	-----	80	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	49	49	-----	-----	-----
0191 MISCELLANEOUS FARM PRODUCTS-----	24	-----	24	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	470	2	363	49	56
1091 NONFERROUS ORES, CONCENT, NEC-----	66	-----	66	-----	-----
1491 SALT-----	6,292	-----	6,292	-----	-----
1492 SULPHUR, DRY-----	4,749	-----	4,749	-----	-----
2011 MEAT, FRESH, CHILLED, FROZEN-----	4	-----	4	-----	-----
2021 DAIRY PRODUCTS, NEC-----	8	-----	8	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	12,287	7,886	4,399	-----	2
2049 GRAIN MILL PRODUCTS, NEC-----	40	-----	40	-----	-----
2081 ALCOHOLIC BEVERAGES-----	1,101	2	1,099	-----	-----
2098 GROCERIES-----	6,217	192	6,025	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	2,126	-----	2,126	-----	-----
2414 TIMBER, POSTS, POLES, PILING-----	41	-----	41	-----	-----
2416 WOOD CHIPS, STAVES, HOLDINGS-----	71,076	-----	-----	71,076	-----
2421 LUMBER-----	2,195	18	2,177	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	464	10	454	-----	-----
2491 WOOD MANUFACTURES, NEC-----	768	-----	768	-----	-----
2511 FURNITURE AND FIXTURES-----	895	473	417	5	-----
2611 PULP-----	6,901	6,901	-----	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	362	84	278	-----	-----
2631 PAPER AND PAPERBOARD-----	44	9	35	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	1,078	40	1,034	-----	-----
2810 SODIUM HYDROXIDE-----	17,563	-----	17,563	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	7,300	5	7,295	-----	-----
2851 PAINTS-----	132	2	130	-----	-----

## ALASKA DISTRICT

BERGIUS AND WHITESTONE NARROWS, ALASKA--CONTINUED

81

FREIGHT TRAFFIC, 1982--CONTINUED

DOMESTIC--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE		INTERNAL	
		NORTHBOUND	THROUGH	THROUGH	NORTHBOUND
2070 FERTILIZER AND MATERIALS, NEC	37	37			
2091 MISCELLANEOUS CHEMICAL PROD	5,020	4,909			111
2011 GASOLINE	8,735	515		1,066	7,356
2012 JET FUEL	7,368	247		246	6,875
2014 DISTILLATE FUEL OIL	27,741	50A		6,094	21,139
2015 RESIDUAL FUEL OIL	39,819	39,819			
2010 ASPHALT, TAR, AND PITCHES	617	617			
2021 LIQUEFIED GASES	19	19			
2051 ASPHALT BUILDING MATERIALS	106	106			
2091 PETROLEUM AND COAL PROD, NEC	457	12	445		
3011 RUBBER AND MISC PLASTIC PROD	39	6	33		
3211 GLASS AND GLASS PRODUCTS	41	9	32		
3201 BUILDING CEMENT	992	992			
3251 STRUCTURAL CLAY PRODUCTS	144	144			
3291 MISC NONMETALLIC MINERAL PROD	1,309	10	1,299		
3321 NONFERROUS METALS, NEC	15	15			
3411 FABRICATED METAL PRODUCTS	2,826	41	2,130	134	521
3511 MACHINERY, EXCEPT ELECTRICAL	1,851	867	676	145	163
3611 ELECTRICAL MACH AND EQUIP	97	17	80		
3711 MOTOR VEHICLES, PARTS, EQUIP	2,090	1,285	1,197	6	2
3731 SHIPS AND BOATS	100	6	93		3
3791 MISC TRANSPORTATION EQUIPMENT	438	100	330	8	
4011 IRON AND STEEL SCRAP	1,339	1,319	20		
4112 COMMODITIES, NEC	16,786	2,184	14,251	219	132
4119 EMPTY CONTAINERS	415	168	247		

## SKAGWAY HARBOR, ALASKA

SECTION INCLUDED: ENTIRE WATER FRONT OF SKAGWAY HARBOR, CONTROLLING DEPTH: MAIN HARBOR, ADEQUATE, DEPTH ALONGSIDE THE WHITE PASS AND YUKON RAILWAY WHARF, 19.9 FEET; 10.9 FEET IN SMALL BOAT BASIN; 42.5 FEET AT PACIFIC AND ARTIC RAILWAY NAVIGATION COMPANY DRY TERMINALS; 20 FEET AT ALASKA STATE FERRY DOCK. PROJECT DEPTH: MAIN HARBOR, 30 FEET ALONG SOUTHERN 700 FEET OF FACE OF DOCK AND 20 FEET FOR THE NEXT 100 FEET; SMALL BOAT BASIN, 8 FEET FOR FEDERAL PORTION, 12 FEET MAINTAINED BY LOCAL INTERESTS. ALL DEPTHS REFER TO MLLW.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	ADDITIONAL TRAFFIC	
					GENERAL FERRY VEHICLES	PASSENGERS
1973	1,347,761		1,347,761	62,730	8,649	62,730
1974	1,514,744		1,514,744	102,903	5,052	102,903
1975	1,416,177		1,416,177	151,573	5,573	151,573
1976	832,562		832,562	139,851	8,270	139,851
1977	1,026,448		1,026,448	77,058	5,458	77,058
1978	906,289		906,289	187,637	5,612	187,637
1979	800,207		800,207	101,732	3,891	101,732
1980	1,085,060		1,085,060	153,752	5,362	153,572
1981	1,118,804		1,118,804	52,538	6,652	52,538
1982	510,027		510,027	91,859	10,722	91,859

## FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		INTERNAL
		IMPORTS	EXPORTS	RECEIPTS	RECEIPTS	
TOTAL	\$10,027	220,284	279,001	1,175	9,466	181
1021 COPPER ORE AND CONCENTRATES	25,289	24,269				
1091 NONFERROUS ORES, CONCENT, NEC	246,225		246,225			
2021 LUMBER	50	50				
2711 PRINTED MATTER	2	2				
2041 SOAP	2	0				
2011 GASOLINE	32,983	32,223		170	590	
2012 JET FUEL	612			140	472	
2014 DISTILLATE FUEL OIL	49,328	40,512		865	7,951	
2016 LUBRICATING OILS AND GREASES	1	1				
2091 PETROLEUM AND COAL PROD, NEC	103,121	103,121				
3011 RUBBER AND MISC PLASTIC PROD	7	7				
3317 IRON AND STEEL PIPE AND TUBE	31	31				
3411 FABRICATED METAL PRODUCTS	56	21			10	25
3511 MACHINERY, EXCEPT ELECTRICAL	567	137			430	
3711 MOTOR VEHICLES, PARTS, EQUIP	21				13	8
3791 MISC TRANSPORTATION EQUIPMENT	21	2				19
4112 COMMODITIES, NEC	53,704	46,135	7,687			82
4119 EMPTY CONTAINERS	7					7

*Waterborne Commerce of the United States, 1982*  
VALDEZ HARBOR, ALASKA

SECTION INCLUDED: ENTIRE WATERFRONT FROM POINT OF LAND WEST OF FERRY TERMINAL EASTERLY TO ALASKA HYDROTRAIN DOCK, EASTERN PART OF PORT VALDEZ FROM THE FERRY TERMINAL ON THE NORTH TO THE TRANS-ALASKA PIPELINE TERMINAL ON THE SOUTH. CONTROLLING DEPTHS: 12 FEET IN THE SMALL BAY, PROJECT DEPTHS: 12 FEET, EXCEPT 20 FEET AT FERRY TERMINAL, 50 FEET OFF THE CITY DOCK, 40 FEET OFF THE VALDEZ DOCK, AND 0.0 AT SONTAG & ALASKA HYDROTRAIN FACILITIES. ALL DEPTHS REFER TO MLLW.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1973-----	301,076	1978-----	55,551,933
1974-----	356,967	1979-----	65,452,418
1975-----	658,514	1980-----	85,973,086
1976-----	507,672	1981-----	84,842,803
1977-----	10,666,972	1982-----	90,138,462

\* PASSENGERS--30,899.

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN	DOMESTIC COASTWISE	
		EXPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	90,138,462	4,484	175,787	89,958,191
0911 FRESH FISH, EXCEPT SHELLFISH-----	4,387	4,387	-----	-----
1311 CRUDE PETROLEUM-----	89,834,353	-----	-----	89,834,353
2031 FISH AND SHELLFISH, PREPARED-----	97	97	-----	-----
2081 ALCOHOLIC BEVERAGES-----	8	8	-----	-----
2091 GROCERIES-----	16	16	-----	-----
2421 LUMBER-----	133	133	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	10,510	10,242	266	-----
2491 WOOD MANUFACTURES, NEC-----	4	4	-----	-----
2911 GASOLINE-----	980	947	33	-----
2912 JET FUEL-----	58,788	37,241	21,507	-----
2914 DISTILLATE FUEL OIL-----	27,036	15,016	12,020	-----
2991 PETROLEUM AND COAL PROD, NEC-----	196,972	109,226	87,746	-----
3011 RUBBER AND MISC PLASTIC PROD-----	1,627	-----	1,427	-----
3241 BUILDING CEMENT-----	1	1	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	1	1	-----	-----
3411 FABRICATED METAL PRODUCTS-----	8	8	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,499	2,499	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	893	132	761	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	44	-----	44	-----
4112 COMMODITIES, NEC-----	307	307	-----	-----
4119 EMPTY CONTAINERS-----	14	6	8	-----
	24	24	24	-----

ANCHORAGE, ALASKA

SECTION INCLUDED: KNIK ARM FROM THE MUNICIPAL TERMINAL ON THE NORTH TO AND INCLUDING TERMINAL FACILITIES ON SHIP CREEK. CONTROLLING DEPTHS: 35 FEET OFF THE FACE OF THE CITY DOCKS; THE APPROACH CHANNEL NORTH OF FIRE ISLAND, TO POINT HORONOF, 20.5 FEET. PROJECT DEPTHS: 35 FEET. ALL DEPTHS REFER TO MLLW.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	ADDITIONAL TRAFFIC		YEAR	TONS	PASSENGERS	ADDITIONAL TRAFFIC	
			GENERAL FERRY VEHICLES	PASSENGERS				GENERAL FERRY VEHICLES	PASSENGERS
1973-----	2,626,763	2,900	562	2,900	1978-----	2,226,158	-----	-----	-----
1974-----	2,300,181	-----	-----	-----	1979-----	1,638,747	-----	-----	-----
1975-----	2,936,159	-----	-----	-----	1980-----	1,751,600	-----	-----	-----
1976-----	2,932,468	-----	-----	-----	1981-----	2,259,901	-----	-----	-----
1977-----	2,267,081	-----	-----	-----	1982-----	1,998,185	-----	-----	-----

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC COASTWISE	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	1,998,185	100,360	52,792	1,706,806	138,227
0112 FLAXSEED-----	134	-----	-----	134	-----
0122 HAY AND FORAGE-----	687	-----	-----	487	-----
0129 FIELD CROPS, NEC-----	56	-----	-----	56	-----
0131 FRESH FRUITS-----	16,816	-----	-----	16,816	-----
0132 BANANAS AND PLANTAINS-----	1,772	-----	-----	1,972	-----
0141 FRESH AND FROZEN VEGETABLES-----	17,857	-----	-----	17,857	-----
0161 ANIMALS AND PRODUCTS, NEC-----	2,367	-----	-----	2,300	67
0191 MISCELLANEOUS FARM PRODUCTS-----	533	-----	-----	533	-----
0261 FOREST PRODUCTS, NEC-----	917	-----	-----	917	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	20,418	-----	17,279	180	2,970
0912 SHELLFISH, EXCEPT PREPARED-----	1,242	-----	999	-----	243
1121 COAL AND LIGNITE-----	12,324	-----	-----	12,321	3
1411 LIMESTONE-----	1,995	1,995	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	684	-----	-----	684	-----
1491 CLAY-----	696	-----	-----	696	-----
1491 SALT-----	3,827	-----	-----	3,827	-----

## ALASKA DISTRICT

83

ANCHORAGE, ALASKA--CONTINUED

FREIGHT TRAFFIC, 1982--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC COASTWISE	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
1494 GYPSUM, CRUDE AND PLASTERS--	368			368	
1499 NONMETALLIC MINERALS, NEC--	3,128			3,128	
2011 MEAT, FRESH, CHILLED, FROZEN--	12,408			12,408	
2012 MEAT AND PRODUCTS, NEC--	167			167	
2021 DAIRY PRODUCTS, NEC--	28,210			28,210	
2031 FISH AND SHELLFISH, PREPARED--	45,535	2,293		557	42,685
2034 VEGETABLES AND PREP, NEC--	2,001			2,001	
2039 PREP FRUIT AND VEG JUICE, NEC--	282			282	
2041 WHEAT FLOUR AND SEMOLINA--	90			90	
2042 ANIMAL FEEDS--	2,692			2,692	
2049 GRAIN MILL PRODUCTS, NEC--	89			89	
2061 SUGAR--	39			23	16
2081 ALCOHOLIC BEVERAGES--	28,475			28,455	20
2094 GROCERIES--	106,090			106,078	21
2099 MISCELLANEOUS FOOD PRODUCTS--	23,812			23,730	82
2111 TOBACCO MANUFACTURES--	60			69	
2211 BASIC TEXTILE PRODUCTS--	233			233	
2311 APPAREL--	9			9	
2411 LOGS--	31,734	31,716		16	
2413 FUEL, WOOD, CHARCOAL, WASTES--	213			213	
2414 TIMBER, POSTS, POLES, PILING--	1,081			1,041	
2421 LUMBER--	98,946	68		98,795	83
2431 VENEER, PLYWOOD, WORKED WOOD--	8,663			8,663	
2491 WOOD MANUFACTURES, NEC--	34,795			34,737	58
2511 FURNITURE AND FIXTURES--	23,362			15,848	7,518
2621 STANDARD NEWSPRINT PAPER--	7,778			7,778	
2631 PAPER AND PAPERBOARD--	14,851	12,466		2,385	
2691 PULP AND PAPER PRODUCTS, NEC--	5,970	127		5,819	24
2711 PRINTED MATTER--	717			717	
2811 CRUDE TAR, OIL, GAS PRODUCTS--	6,042			6,042	
2813 ALCOHOL--	513			513	
2816 RADIOACTIVE MATERIALS, WASTES--	59			59	
2817 BENZENE AND TOLUENE--	1,486			1,486	
2819 BASIC CHEMICALS AND PROD, NEC--	6,145			6,143	2
2821 PLASTIC MATERIALS--	2,944			2,944	
2831 DRUGS--	110			110	
2841 SOAP--	957			953	4
2851 PAINTS--	276			276	
2861 GUM AND WOOD CHEMICALS--	24			24	
2871 NITROGENOUS CHEM FERTILIZER--	213			213	
2879 FERTILIZER AND MATERIALS, NEC--	388			388	
2901 MISCELLANEOUS CHEMICAL PROD--	2,344	1		2,343	
2911 GASOLINE--	69,912	32,768		37,144	
2912 JET FUEL--	179,623			179,623	
2914 DISTILLATE FUEL OIL--	33,180			15,493	17,487
2916 LUBRICATING OILS AND GREASES--	649			649	
2917 ASPHALT, PETROLEUM SOLVENTS--	268			268	
2918 ASPHALT, TAR, AND PITCHES--	23,888			22,276	1,612
2921 LIQUEFIED GASES--	2			2	
2951 ASPHALT BUILDING MATERIALS--	674			672	2
2991 PETROLEUM AND COAL PROD, NEC--	13,912			13,490	22
3011 RUBBER AND MISC PLASTIC PROD--	3,011			2,889	122
3211 GLASS AND GLASS PRODUCTS--	1,200			1,200	
3241 BUILDING CEMENT--	167,124	18,142		148,035	47
3251 STRUCTURAL CLAY PRODUCTS--	978	566		412	
3271 LIME--	195			155	
3291 MISC NONMETALLIC MINERAL PROD--	35,684			35,616	68
3310 IRON AND STEEL PRIMARY FORMS--	24			24	
3315 IRON, STEEL SHAPES, EXC SHEET--	19,967	5,242		14,725	
3316 IRON AND STEEL PLATES, SHEETS--	1,385			1,355	
3317 IRON AND STEEL PIPE AND TUBE--	60,519	24,736	110	35,369	304
3319 IRON AND STEEL PRODUCTS, NEC--	328			328	
3321 NONFERROUS METALS, NEC--	681			661	20
3322 COPPER ALLOYS, UNWORKED--	165			165	
3328 ALUMINUM AND ALLOYS, UNWORKED--	172			172	
3411 FABRICATED METAL PRODUCTS--	42,815	2,378	10	40,164	263
3511 MACHINERY, EXCEPT ELECTRICAL--	27,547	9	385	23,358	3,795
3711 MOTOR VEHICLES, PARTS, EQUIP--	2,399			2,397	2
3721 AIRCRAFT AND PARTS--	43,833	1,250		39,455	3,128
3731 SHIPS AND BOATS--	80			40	
3791 MISC TRANSPORTATION EQUIPMENT--	1,508			1,493	15
3811 INSTR, TIME, PHOTO, OPT GOODS--	6,380			6,280	96
3911 MISC MANUFACTURED PRODUCTS--	75			75	
4011 IRON AND STEEL SCRAP--	25,338			21,199	23,139
4012 NONFERROUS METAL SCRAP--	2,190			18	2,172
4112 COMMODITIES, NEC--	18			18	
4119 EMPTY CONTAINERS--	639,737	612		612,998	26,127
	7,210			1,249	5,961

## ILIAKUK HARBOR, ALASKA

SECTION INCLUDED: ENTIRE HARBOR. CONTROLLING DEPTH: 25 FEET IN ENTRANCE CHANNEL AT MEAN LOWER LOW WATER. PROJECT DEPTH: 25 FEET AT MEAN LOWER LOW WATER.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1973--	163,586	1978--	378,900
1974--	157,477	1979--	580,057
1975--	300,053	1980--	463,946
1976--	349,760	1981--	677,346
1977--	342,324	1982--	745,700

## Waterborne Commerce of the United States, 1982

ILIULUK HARBOR, ALASKA--CONTINUED

FREIGHT TRAFFIC, 1982

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		
		IMPORTS	EXPORTS	COASTWISE		LOCAL
				RECEIPTS	SHIPMENTS	
TOTAL.....	745,799	1,819	6,658	340,634	224,375	172,313
0161 ANIMALS AND PRODUCTS, NEC.....	49	.....	.....	49	.....	.....
0911 FRESH FISH, EXCEPT SHELLFISH.....	5,148	.....	6,330	680	138	.....
0912 SHELLFISH, EXCEPT PREPARED.....	2,100	.....	2,100	.....	.....	.....
1491 SALT.....	5,079	618	.....	4,461	.....	.....
2011 MEAT, FRESH, CHILLED, FROZEN.....	157	.....	.....	157	.....	.....
2031 FISH AND SHELLFISH, PREPARED.....	6,258	.....	222	.....	6,036	.....
2039 PREP FRUIT AND VEG JUICE, NEC.....	244	.....	.....	244	.....	.....
2042 ANIMAL FEEDS.....	33	33	.....	.....	.....	.....
2081 ALCOHOLIC BEVERAGES.....	348	.....	.....	348	.....	.....
2094 GROCERIES.....	577	.....	.....	577	.....	.....
2099 MISCELLANEOUS FOOD PRODUCTS.....	327	200	.....	127	.....	.....
2414 TIMBER, POSTS, POLES, PILING.....	350	.....	.....	350	.....	.....
2421 LUMBER.....	387	.....	.....	386	1	.....
2431 VENEER, PLYWOOD, WORKED WOOD.....	31	.....	.....	31	.....	.....
2491 WOOD MANUFACTURES, NEC.....	177	136	.....	39	2	.....
2511 FURNITURE AND FIXTURES.....	4	.....	.....	4	.....	.....
2691 PULP AND PAPER PRODUCTS, NEC.....	1,081	150	.....	924	7	.....
2819 BASIC CHEMICALS AND PROD, NEC.....	130	50	.....	75	5	.....
2821 PLASTIC MATERIALS.....	19	19	.....	.....	.....	.....
2851 PAINTS.....	3	.....	.....	3	.....	.....
2891 MISCELLANEOUS CHEMICAL PROD.....	8	8	.....	.....	.....	.....
2911 GASOLINE.....	97,857	.....	.....	42,772	36,867	18,218
2912 JET FUEL.....	160,522	.....	.....	85,684	64,949	29,889
2914 DISTILLATE FUEL OIL.....	433,078	.....	.....	195,332	113,590	124,206
2915 RESIDUAL FUEL OIL.....	347	.....	.....	.....	347	.....
2921 LIQUEFIED GASES.....	19	.....	.....	19	.....	.....
2991 PETROLEUM AND COAL PROD, NEC.....	221	.....	.....	221	.....	.....
3011 RUBBER AND MISC PLASTIC PROD.....	50	35	.....	15	.....	.....
3241 BUILDING CEMENT.....	483	.....	.....	483	.....	.....
3291 MISC NONMETALLIC MINERAL PROD.....	1,520	.....	.....	1,520	.....	.....
3315 IRON, STEEL SHAPES, EXC SHEET.....	416	.....	.....	416	.....	.....
3411 FABRICATED METAL PRODUCTS.....	1,377	4	.....	1,243	130	.....
3511 MACHINERY, EXCEPT ELECTRICAL.....	702	18	.....	664	20	.....
3611 ELECTRICAL MACH AND EQUIP.....	10	4	6	.....	.....	.....
3711 MOTOR VEHICLES, PARTS, EQUIP.....	53	.....	.....	48	5	.....
3731 SHIPS AND BOATS.....	15	.....	.....	15	.....	.....
3911 MISC MANUFACTURED PRODUCTS.....	62	.....	.....	60	2	.....
4011 IRON AND STEEL SCRAP.....	19	.....	.....	19	.....	.....
4112 COMMODITIES, NEC.....	6,427	544	.....	3,721	2,162	.....
4119 EMPTY CONTAINERS.....	111	.....	.....	.....	111	.....

## ALASKA DISTRICT

85

## OTHER HARBORS AND WATERWAYS

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TIN- MILES	PASSENGERS
PROJECT				
BETHEL HARBOR, ALASKA-----	1442 SAND, GRAVEL, CRUSHED ROCK----- 1491 SALT----- 2031 FISH AND SHELLFISH, PREPARED----- 2081 ALCOMILIC BEVERAGES----- 2094 GROCERIES----- 2099 MISCELLANEOUS FOOD PRODUCTS----- 2411 LOGS----- 2414 TIMBER, POSTS, POLES, PILING----- 2421 LUMBER----- 2431 VENEER, PLYWOOD, WORKED WOOD----- 2491 WOOD MANUFACTURES, NEC----- 2511 FURNITURE AND FIXTURES----- 2631 PAPER AND PAPERBOARD----- 2691 PULP AND PAPER PRODUCTS, NEC----- 2819 BASIC CHEMICALS AND PRODS, NEC----- 2911 GASOLINE----- 2912 DISTILLATE FUEL OIL----- 2951 ASPHALT BUILDING MATERIALS----- 2991 PETROLEUM AND COAL PROD, NEC----- 3241 BUILDING CEMENT----- 3291 MISC NONMETALLIC MINERAL PROD----- 3317 IRON AND STEEL PIPE AND TUBE----- 3319 IRON AND STEEL PRODUCTS, NEC----- 3322 COPPER ALLOYS, UNWORKED----- 3411 FABRICATED METAL PRODUCTS----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 3611 ELECTRICAL MACH AND EQUIP----- 3711 MOTOR VEHICLES, PARTS, EQUIP----- 3731 SHIPS AND BOATS----- 3791 MISC TRANSPORTATION EQUIPMENT----- 4112 COMMODITIES, NEC----- 4119 EMPTY CONTAINERS-----	29,504 101 657 14 94 362 141 168 1,282 381 146 140 16 114 16 8,985 22,770 12,639 15 9,160 40 404 69 30 7 622 53 34 429 165 3 6,759 94	-----	-----
	TOTAL-----	96,105	-----	-----
CORDOVA HARBOR, ALASKA-----	0911 FRESH FISH, EXCEPT SHELLFISH----- 1491 SALT----- 2031 FISH AND SHELLFISH, PREPARED----- 2081 ALCOMILIC BEVERAGES----- 2094 GROCERIES----- 2099 MISCELLANEOUS FOOD PRODUCTS----- 2421 LUMBER----- 2431 VENEER, PLYWOOD, WORKED WOOD----- 2491 WOOD MANUFACTURES, NEC----- 2511 FURNITURE AND FIXTURES----- 2631 PAPER AND PAPERBOARD----- 2691 PULP AND PAPER PRODUCTS, NEC----- 2841 SOAP----- 2911 GASOLINE----- 2912 JET FUEL----- 2914 DISTILLATE FUEL OIL----- 3011 RUBBER AND MISC PLASTIC PROD----- 3241 BUILDING CEMENT----- 3291 MISC NONMETALLIC MINERAL PROD----- 3315 IRON, STEEL SHAPES, EXC SHEET----- 3317 IRON AND STEEL PIPE AND TUBE----- 3411 FABRICATED METAL PRODUCTS----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 3711 MOTOR VEHICLES, PARTS, EQUIP----- 3731 SHIPS AND BOATS----- 3791 MISC TRANSPORTATION EQUIPMENT----- 3911 MISC MANUFACTURED PRODUCTS----- 4112 COMMODITIES, NEC-----	13 217 769 487 16 28 25 13 3 11 1 15 14 4,774 2,497 16,477 54 318 3 61 52 193 181 62 83 152 67 1,803	-----	-----
	TOTAL-----	28,384	10,730	-----
CRAIG HARBOR, ALASKA-----	2011 GASOLINE----- 2012 JET FUEL----- 2914 DISTILLATE FUEL OIL----- 3011 RUBBER AND MISC PLASTIC PROD----- 3291 MISC NONMETALLIC MINERAL PROD----- 3317 IRON AND STEEL PIPE AND TUBE----- 3411 FABRICATED METAL PRODUCTS----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 3791 MISC TRANSPORTATION EQUIPMENT----- 4112 COMMODITIES, NEC-----	1,766 1,204 6,974 2 7 22 137 61 5 1,107	-----	-----
	TOTAL-----	11,284	-----	-----
DILLINGHAM HARBOR, ALASKA-----	0141 FRESH AND FROZEN VEGETABLES----- 1491 SALT----- 2011 MEAT, FRESH, CHILLED, FROZEN----- 2031 FISH AND SHELLFISH, PREPARED----- 2039 PREP FRUIT AND VEG JUICE, NFC----- 2081 ALCOMILIC BEVERAGES----- 2094 GROCERIES----- 2099 MISCELLANEOUS FOOD PRODUCTS----- 2414 TIMBER, POSTS, POLES, PILING----- 2421 LUMBER----- 2431 VENEER, PLYWOOD, WORKED WOOD----- 2491 WOOD MANUFACTURES, NEC----- 2511 FURNITURE AND FIXTURES----- 2691 PULP AND PAPER PRODUCTS, NEC----- 2821 PLASTIC MATERIALS----- 2911 GASOLINE----- 2912 JET FUEL----- 2914 DISTILLATE FUEL OIL-----	20 676 29 1,604 35 770 76 37 66 1,655 264 164 287 727 2 7,670 5,283 13,752	-----	-----

## Waterborne Commerce of the United States, 1982

## OTHER HARBOURS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TOWNS MILES	PASSENGERS
<b>PROJECT--CONTINUED</b>				
BILLINGHAM HARBOR, ALASKA (CONTINUED)	2915 FRESHWATER FUEL OIL-----	347		
	2951 ASPHALT BUILDING MATERIALS-----	6		
	3011 RUMMER AND MISC PLASTIC PROD-----	67		
	3241 BUILDING CEMENT-----	421		
	3241 CUT STONE AND STONE PRODUCTS-----	10		
	3291 MISC NONMETALLIC MINERAL PROD-----	4,364		
	3315 IRON, STEEL SHAPES, EXC SHEET-----	671		
	3319 IRON AND STEEL PRODUCTS, NEC-----	45		
	3411 FABRICATED METAL PRODUCTS-----	903		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	965		
	3611 ELECTRICAL MACH. EQUIP-----	10		
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	524		
	3731 SHIPS AND BOATS-----	475		
	3791 MISC TRANSPORTATION EQUIPMENT-----	202		
	4112 COMMODITIES, NEC-----	3,879		
	4119 EMPTY CONTAINERS-----	270		
	<b>TOTAL-----</b>	<b>42,834</b>		
DOUGLAS HARBOR, ALASKA-----	NO COMMERCE REPORTED			
DRY PASS, ALASKA-----	NO COMMERCE REPORTED			
EGEGLIK RIVER, ALASKA-----	1491 SALT-----	37		
	2031 FISH AND SHELLFISH, PREPARED-----	833		
	2041 ALCOHOLIC BEVERAGES-----	56		
	2094 GROCERIES-----	68		
	2414 TIMBER, POSTS, POLES, PILING-----	62		
	2421 LUMBER-----	97		
	2431 VENEER, PLYWOOD, TANNED ANIMAL-----	41		
	2491 WOOD MANUFACTURES, NEC-----	6		
	2691 PULP AND PAPER PRODUCTS, NEC-----	17		
	2914 DISTILLATE FUEL OIL-----	15		
	3011 RUMMER AND MISC PLASTIC PROD-----	67		
	3241 BUILDING CEMENT-----	94		
	3291 MISC NONMETALLIC MINERAL PROD-----	20		
	3411 FABRICATED METAL PRODUCTS-----	263		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	124		
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	34		
	3731 SHIPS AND BOATS-----	23		
	3791 MISC TRANSPORTATION EQUIPMENT-----	262		
	4112 COMMODITIES, NEC-----	220		
	<b>TOTAL-----</b>	<b>2,343</b>		
ELFIN COVE HARBOR, ALASKA-----	2911 GASOLINE-----	42		
	2912 JET FUEL-----	154		
	2914 DISTILLATE FUEL OIL-----	271		
	<b>TOTAL-----</b>	<b>467</b>		
HOMER, ALASKA-----	0911 FRESH FISH, EXCEPT SHELLFISH-----	10,868		
	0912 SHELLFISH, EXCEPT PREPARED-----	528		
	1491 SALT-----	93		
	2031 FISH AND SHELLFISH, PREPARED-----	1,115		
	2049 GRIND MILL PRODUCTS, NEC-----	71		
	2061 SUGAR-----	23		
	2099 MISCELLANEOUS FOOD PRODUCTS-----	55		
	2211 BASIC TEXTILE PRODUCTS-----	13		
	2411 LOGS-----	1,317		
	2414 TIMBER, POSTS, POLES, PILING-----	2		
	2421 LUMBER-----	967		
	2431 VENEER, PLYWOOD, TANNED ANIMAL-----	790		
	2491 WOOD MANUFACTURES, NEC-----	126		
	2511 FURNITURE AND FIXTURES-----	11		
	2691 PULP AND PAPER PRODUCTS, NEC-----	1		
	2821 PLASTIC MATERIALS-----	3		
	2871 NITROGENOUS CHEM FERTILIZERS-----	21,936		
	2911 GASOLINE-----	2,975		
	2912 JET FUEL-----	1,593		
	2914 DISTILLATE FUEL OIL-----	5,038		
	2921 LIQUEFIED GASES-----	20		
	3011 RUMMER AND MISC PLASTIC PROD-----	2		
	3291 MISC NONMETALLIC MINERAL PROD-----	323		
	3315 IRON, STEEL SHAPES, EXC SHEET-----	40		
	3317 IRON AND STEEL PIPE AND TUBE-----	31		
	3319 IRON AND STEEL PRODUCTS, NEC-----	44		
	3411 FABRICATED METAL PRODUCTS-----	337		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	2,762		
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	36		
	3731 SHIPS AND BOATS-----	22		
	3791 MISC TRANSPORTATION EQUIPMENT-----	74		
	4112 COMMODITIES, NEC-----	847		
	<b>TOTAL-----</b>	<b>52,664</b>		<b>14,153</b>
HODNAH HARBOR, ALASKA-----	1491 SALT-----	10		
	2011 MEAT, FRESH, CHILLED, FROZEN-----	1		
	2031 FISH AND SHELLFISH, PREPARED-----	15		
	2033 PUPP FRUIT AND VEG JUICE, ETC-----	6		
	2691 PULP AND PAPER PRODUCTS, NEC-----	12		
	2891 MISCELLANEOUS CHEMICAL PROD-----	264		
	2911 GASOLINE-----	358		
	2912 JET FUEL-----	232		
	2914 DISTILLATE FUEL OIL-----	3,264		
	3011 FABRICATED METAL PRODUCTS-----	6		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	260		
	3791 MISC TRANSPORTATION EQUIPMENT-----	45		

## ALASKA DISTRICT

87

## OTHER HARBOURS AND WATERWAYS--CONTINUED

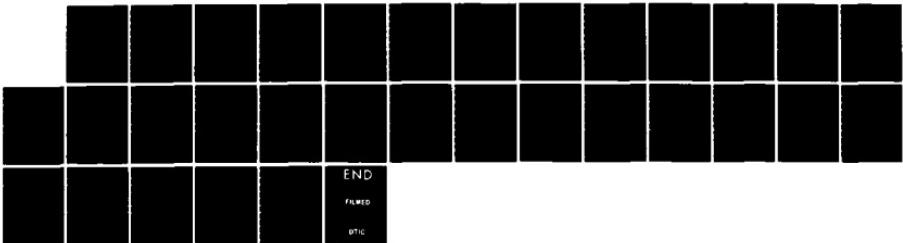
HARBOR OR WATERWAY	COMMODITY	TONS	TONS TAPER	PASSENGERS
PROJECT--CONTINUED				
HODILAH HARBOR, ALASKA (CONTINUED)	#112 COMMODITIES, F.C.C.	957		
JUNEAU HARBOR, ALASKA	TOTAL	6,363		9,554
	0122 MAY AND ENDIVE	142		
	0141 FRESH AND FROZEN VEGETABLES	113		
	0191 MISCELLANEOUS FARM PRODUCTS	147		
	0911 FRESH FISH, EXCEPT SHELLFISH	665		
	0912 SHELLFISH, EXCEPT PREPARED	244		
	1091 NONFERROUS ORES, CONCENT., NEC	60		
	1442 SAW), GRAVELY, CRUSHED ROCK	12,457		
	1491 SALT	1,734		
	1494 GYPSUM, CHALK AND PLASTER	114		
	2031 FISH AND SHELLFISH, PREPARED	5,169		
	2042 ANIMAL FEEDS	76		
	2049 GRAIN, MILL PRODUCTS, NEC	296		
	2081 ALCOHOLIC BEVERAGES	5,805		
	2091 GRAPES	13,811		
	2099 MISCELLANEOUS FARM PRODUCTS	17,356		
	2411 LOGS	12,217		
	2411 TIMBER, POSTS, POLES, MILIT.	929		
	2421 LUMBER	22,174		
	2431 VENEER, PLYWOOD, WARRED FOOT	2,961		
	2491 WOOD MANUFACTURES, NEC	1,513		
	2511 FURNITURE AND FIXTURES	764		
	2621 STANDARD KRAFT/PAPER	1,177		
	2631 PAPER AND PAPERBOARD	152		
	2691 PULP AND PAPER PRODUCTS, NEC	66		
	2819 BASIC CHEMICALS AND PRIM., NEC	1,113		
	2845 FAILTS	432		
	2871 FERTILIZER AND MATERIALS, NEC	155		
	2891 MISCELLANEOUS CHEMICAL PRIM.	77		
	2911 GASOLINE	26,266		
	2912 JET FUEL	4,077		
	2914 DISTILLATE FUEL OIL	47,543		
	2918 ASPHALT, TAR, AND PITCHES	5,470		
	2921 LIQUEFIED GASES	246		
	2951 ASPHALT BUILDING MATERIALS	1,323		
	2991 PETROLEUM AND COAL TAR, NEC	1,003		
	3011 RUBBER AND MISC PLASTIC PRIM.	242		
	3211 GLASS AND GLASS PRODUCTS	35		
	3241 BUILDING CEMENT	7,319		
	3251 STRUCTURAL CLAY PRODUCTS	574		
	3271 LIME	71		
	3281 CUT STONE AND STONE PRODUCTS	536		
	3291 MISC NONMETALLIC INERTIAL PRIM.	4,512		
	3317 IRON AND STEEL PIPE AND TUBE	44		
	3319 IRON AND STEEL PRODUCTS, NEC	13		
	3321 NONFERROUS METALS, NEC	145		
	3411 FAHRIKATED METAL PRODUCTS	5,951		
	3511 MACHINERY, EXCEPT ELECTRICAL	5,110		
	3611 ELECTRICAL MACH AND EQUIP.	491		
	3711 MOTOR VEHICLES, PARTS, ETC.	3,659		
	3731 SHIPS AND BOATS	243		
	3791 MISC TRANSPORTATION EQUIPMENT	1,446		
	4011 IRON AND STEEL SCRAP	37		
	4112 COMMODITIES, F.C.C.	14,247		
	4119 EMPTY CONTAINERS	1,228		
	TOTAL	246,367		82,052
KAKE HARBOR, ALASKA				
	2031 FISH AND SHELLFISH, PREPARED	324		
	2421 LUMBER	1,657		
	2431 VENEER, PLYWOOD, WARRED FOOT	3		
	2891 MISCELLANEOUS CHEMICAL PRIM.	281		
	2911 GASOLINE	26		
	2912 JET FUEL	12		
	2914 DISTILLATE FUEL OIL	1,145		
	3411 FAHRIKATED METAL PRODUCTS	544		
	3511 MACHINERY, EXCEPT ELECTRICAL	447		
	3611 ELECTRICAL MACH AND EQUIP.	51		
	3711 MOTOR VEHICLES, PARTS, ETC.	31		
	4112 COMMODITIES, F.C.C.	952		
	TOTAL	5,764		7,378
KING COVE, ALASKA				
	0911 FRESH FISH, EXCEPT SHELLFISH	5		
	1491 SALT	1,276		
	2011 MEAT, FRESH, ENTINLY, FROZEN	5		
	2031 FISH AND SHELLFISH, PREPARED	5,126		
	2034 PREP FRUIT AND VEG (LICK), F.C.C.	1,5		
	2491 WOOD MANUFACTURES, NEC	56		
	2691 PULP AND PAPER PRODUCTS, NEC	441		
	2911 GASOLINE	277		
	2912 JET FUEL	61		
	2914 DISTILLATE FUEL OIL	5,712		
	3411 FAHRIKATED METAL PRODUCTS	544		
	4112 COMMODITIES, F.C.C.	1,352		
	4119 EMPTY CONTAINERS	467		
	TOTAL	17,172		122
KODIAK HARBOR, ALASKA				
	0105 RICE	5		
	0131 FRESH FRITS	112		
	0141 FRESH AND FROZEN VEGETABLES	241		
	0911 FRESH FISH, EXCEPT SHELLFISH	21,145		
	0912 SHELLFISH, EXCEPT PREPARED	3,362		
	1121 COAL AND LIGNITE	1,575		

✓ RD-A148 824 WATERBORNE COMMERCE OF THE UNITED STATES CALENDAR YEAR 2/2  
1982 PART 4 WATERM. (U) CORPS OF ENGINEERS FORT BELVOIR  
VA WATER RESOURCES SUPPORT CE. JUL 84 WRSC-WCUS-82-4

F/G 15/5

NL

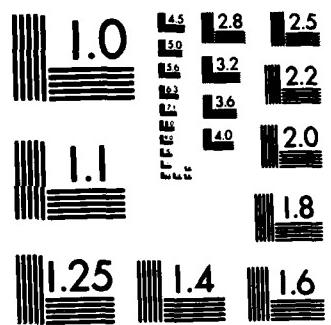
UNCLASSIFIED



END

FILMED

DTIC



## Waterborne Commerce of the United States, 1982

## OTHER HARBOURS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TONS MILES	PASSENGERS
PROJECT--CONTINUED				
KODIAK HARBOR, ALASKA (CONTINUED)	1491 SALT-----	1,743		
	2011 MEAT, FRESH, CHILLED, FROZEN-----	57		
	2031 DAIRY PRODUCTS, NEC-----	19		
	2031 FISH AND SHELLFISH, PREPARED-----	43,062		
	2039 PREP FRUIT AND VEG JUICE, NEC-----	75		
	2081 ALCOLIC BEVERAGE-----	1,036		
	2092 ANIMAL OILS AND FATS, NEC-----	413		
	2094 GROCERIES-----	20		
	2099 MISCELLANEOUS FOOD PRODUCTS-----	1,377		
	2421 LUMBER-----	766		
	2431 VENEER, PLYWOOD, WORKED WOOD-----	286		
	2491 WOOD MANUFACTURES, NEC-----	460		
	2511 FURNITURE AND FIXTURES-----	24		
	2691 PULP AND PAPER PRODUCTS, NEC-----	3,472		
	2817 HENZENE AND TOLUENE-----	327		
	2819 BASIC CHEMICALS AND PHD, NEC-----	57		
	2911 GASOLINE-----	5,566		
	2912 JET FUEL-----	18,981		
	2914 DISTILLATE FUEL OIL-----	24,882		
	2915 RESIDUAL FUEL OIL-----	17,265		
	2916 LUBRICATING OILS AND GREASES-----	84		
	2991 PETROLEUM AND COAL PROD, NEC-----	375		
	3011 RUBBER AND MISC PLASTIC PROD-----	13		
	3111 LEATHER AND LEATHER PRODUCTS-----	21		
	3291 MISC NONMETALLIC MINERAL PROD-----	402		
	3315 IRON, STEEL SHAPES, EXC SHEET-----	145		
	3317 IRON AND STEEL PIPE AND TUBE-----	37		
	3324 ALUMINUM AND ALLOYS, UNMARKED-----	10		
	3411 FABRICATED METAL PRODUCTS-----	3,205		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	712		
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	1,221		
	3911 MISC MANUFACTURED PRODUCTS-----	4,895		
	4112 COMMODITIES, NEC-----	73,586		
	4119 EMPTY CONTAINERS-----	1,119		
	TOTAL-----	236,427	13,923	
METLAKATLA HARBOR, ALASKA-----	0911 FRESH FISH, EXCEPT SMELT-----	463		
	2031 FISH AND SHELLFISH, PREPARED-----	1,994		
	2094 GROCERIES-----	1		
	2099 MISCELLANEOUS FOOD PRODUCTS-----	984		
	2211 BASIC TEXTILE PRODUCTS-----	1		
	2411 LOGS-----	23,466		
	2412 RAFTED LOGS-----	45,938		
	2416 WOOD CHIPS, STAVES, HOLDINGS-----	41,045		
	2421 LUMBER-----	594		
	2511 FURNITURE AND FIXTURES-----	3		
	2631 PAPER AND PAPERBOARD-----	3		
	2691 PULP AND PAPER PRODUCTS, NEC-----	5		
	2819 BASIC CHEMICALS AND PROD, NEC-----	88		
	2991 MISCELLANEOUS CHEMICAL PROD-----	16		
	2991 GASOLINE-----	704		
	2914 DISTILLATE FUEL OIL-----	1,912		
	2991 PETROLEUM AND COAL PROD, NEC-----	10		
	3241 BUILDING CEMENT-----	663		
	3411 FABRICATED METAL PRODUCTS-----	730		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	358		
	3611 ELECTRICAL MACH AND EQUIP-----	11		
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	72		
	3911 MISC MANUFACTURED PRODUCTS-----	37		
	4112 COMMODITIES, NEC-----	104		
	4119 EMPTY CONTAINERS-----	15		
	TOTAL-----	119,585	15,049	
NAKnek RIVER, ALASKA-----	0141 FRESH AND FROZEN VEGETABLES-----	75		
	1491 SALT-----	1,232		
	2011 MEAT, FRESH, CHILLED, FROZEN-----	108		
	2031 FISH AND SHELLFISH, PREPARED-----	4,195		
	2039 PREP FRUIT AND VEG JUICE, NEC-----	121		
	2081 ALCOLIC BEVERAGE-----	300		
	2094 GROCERIES-----	285		
	2099 MISCELLANEOUS FOOD PRODUCTS-----	51		
	2411 LOGS-----	20		
	2414 TIMBER, POSTS, POLES, PILING-----	236		
	2421 LUMBER-----	514		
	2431 VENEER, PLYWOOD, WORKED WOOD-----	150		
	2491 WOOD MANUFACTURES, NEC-----	400		
	2511 FURNITURE AND FIXTURES-----	6		
	2691 PULP AND PAPER PRODUCTS, NEC-----	1,654		
	2991 GASOLINE-----	7,914		
	2912 JET FUEL-----	10,473		
	2914 DISTILLATE FUEL OIL-----	24,569		
	2921 LIQUEFIED GASPS-----	24		
	2991 ASPHALT BUILDING MATERIALS-----	29		
	3091 PETROLEUM AND COAL PROD, NEC-----	224		
	3011 RUBBER AND MISC PLASTIC PROD-----	30		
	3241 BUILDING CEMENT-----	245		
	3291 MISC NONMETALLIC MINERAL PROD-----	5,311		
	3315 IRON, STEEL SHAPES, EXC SHEET-----	296		
	3317 IRON AND STEEL PIPE AND TUBE-----	14		
	3419 IRON AND STEEL PRODUCTS, NEC-----	37		
	3411 FABRICATED METAL PRODUCTS-----	2,267		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	4,725		
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	142		
	3731 SHIPS AND BOATS-----	210		
	3791 MISC TRANSPORTATION EQUIPMENT-----	110		

## ALASKA DISTRICT

89

## OTHER HARBOURS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TIME HOURS	PASSENGERS
<b>PROJECT--CONTINUED</b>				
MANNEN RIVER, ALASKA (CONTINUED)-----	4112 COMMODITIES, NEC-----	2,964	-----	-----
	4119 EMPTY CONTAINERS-----	162	-----	-----
	<b>TOTAL-----</b>	<b>71,184</b>	<b>740,576</b>	-----
MINILCHIK HARBOR, ALASKA-----				
HOME HARBOR, ALASKA-----	1402 SAND, GRAVEL, CRUSHED ROCK-----	1,204	-----	-----
	2081 ALCOHOLIC BEVERAGES-----	124	-----	-----
	2094 GROCERIES-----	119	-----	-----
	2099 MISCELLANEOUS FOOD PRODUCTS-----	224	-----	-----
	2414 TIMBER, POSTS, POLES, PILING-----	80	-----	-----
	2421 LUMBER-----	1,047	-----	-----
	2471 VENEER, PLYWOOD, WINKED WOOD-----	131	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	216	-----	-----
	2511 FURNITURE AND FIXTURES-----	172	-----	-----
	2631 PAPER AND PAPERBOARD-----	32	-----	-----
	2819 BASIC CHEMICALS AND PROD, NEC-----	30	-----	-----
	2911 GASOLINE-----	6,376	-----	-----
	2912 JET FUEL-----	6,105	-----	-----
	2914 DISTILLATE FUEL OIL-----	14,651	-----	-----
	2951 ASPHALT BUILDING MATERIALS-----	13	-----	-----
	3241 BUILDING CEMENT-----	149	-----	-----
	3291 MISC NONMETALLIC MINERAL PROD-----	125	-----	-----
	3317 IRON AND STEEL PIPE AND TUBE-----	23	-----	-----
	3319 IRON AND STEEL PRODUCTS, NEC-----	3	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	474	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	1,402	-----	-----
	3611 ELECTRICAL MACH AND EQUIP-----	2	-----	-----
	3731 MOTOR VEHICLES, PARTS, EQUIP-----	413	-----	-----
	3733 SHIPS AND BOATS-----	64	-----	-----
	3791 MISC TRANSPORTATION EQUIPMENT-----	69	-----	-----
	4112 COMMODITIES, NEC-----	6,469	-----	-----
	4119 EMPTY CONTAINERS-----	165	-----	-----
	<b>TOTAL-----</b>	<b>44,894</b>	-----	-----
OLD HARBOR, ALASKA-----	1491 SALT-----	5	-----	-----
	2011 MEAT, FRESH, CHILLED, FROZEN-----	4	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	443	-----	-----
	2039 PREP FRUIT AND VEG JUICE, NEC-----	6	-----	-----
	2691 PULP AND PAPER PRODUCTS, NEC-----	7	-----	-----
	2911 GASOLINE-----	162	-----	-----
	2912 JET FUEL-----	414	-----	-----
	2914 DISTILLATE FUEL OIL-----	172	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	6	-----	-----
	4112 COMMODITIES, NEC-----	52	-----	-----
	<b>TOTAL-----</b>	<b>1,291</b>	-----	-----
PELICAN HARBOR, ALASKA-----	0911 FRESH FISH, EXCEPT SHELLFISH-----	68	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	2,597	-----	-----
	2421 LUMBER-----	81	-----	-----
	2691 PULP AND PAPER PRODUCTS, NEC-----	31	-----	-----
	2891 MISCELLANEOUS CHEMICAL PROD-----	5	-----	-----
	2911 GASOLINE-----	81	-----	-----
	2912 JET FUEL-----	751	-----	-----
	2914 DISTILLATE FUEL OIL-----	1,182	-----	-----
	3241 BUILDING CEMENT-----	83	-----	-----
	3291 MISC NONMETALLIC MINERAL PROD-----	88	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	30	-----	-----
	3791 MISC TRANSPORTATION EQUIPMENT-----	8	-----	-----
	4112 COMMODITIES, NEC-----	1,387	-----	-----
	<b>TOTAL-----</b>	<b>5,984</b>	<b>569</b>	-----
PETERSBURG HARBOR, ALASKA-----	0141 FRESH AND FROZEN VEGETABLES-----	15	-----	-----
	0161 ANIMALS AND PRODUCTS, NEC-----	292	-----	-----
	0191 MISCELLANEOUS FARM PRODUCTS-----	54	-----	-----
	0911 FRESH FISH, EXCEPT SHELLFISH-----	1,350	-----	-----
	1491 SALT-----	776	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	13,578	-----	-----
	2049 GRAIN MILL PRODUCTS, NEC-----	5	-----	-----
	2081 ALCOHOLIC BEVERAGES-----	416	-----	-----
	2094 GROCERIES-----	1,165	-----	-----
	2099 MISCELLANEOUS FOOD PRODUCTS-----	1,153	-----	-----
	2211 BASIC TEXTILE PRODUCTS-----	166	-----	-----
	2412 WAFFLED LOGS-----	16,426	-----	-----
	2414 TIMBER, POSTS, POLES, PILING-----	410	-----	-----
	2416 WOOD CHIPS, STAVES, HOLDINGS-----	7,429	-----	-----
	2421 LUMBER-----	14,274	-----	-----
	2431 VENEER, PLYWOOD, WINKED WOOD-----	292	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	149	-----	-----
	2511 FURNITURE AND FIXTURES-----	128	-----	-----
	2631 PAPER AND PAPERBOARD-----	19	-----	-----
	2819 BASIC CHEMICALS AND PROD, NEC-----	484	-----	-----
	2851 PAINTS-----	111	-----	-----
	2879 FERTILIZERS AND MATERIALS, NEC-----	60	-----	-----
	2891 MISCELLANEOUS CHEMICAL PROD-----	1	-----	-----
	2911 GASOLINE-----	15	-----	-----
	2912 JET FUEL-----	2,567	-----	-----
	2914 DISTILLATE FUEL OIL-----	1,320	-----	-----
	2921 LIQUEFIED GASES-----	274	-----	-----
	2951 ASPHALT BUILDING MATERIALS-----	63	-----	-----
	2991 PETROLEUM AND COAL PROD, NEC-----	273	-----	-----
	3011 MURKER AND MISC PLASTIC PROD-----	21	-----	-----
	3241 BUILDING CEMENT-----	494	-----	-----

## Waterborne Commerce of the United States, 1982

## OTHER HARBOURS AND WATERWAYS--CONTINUED

HARBOUR OR WATERWAY	COMMODITY	TONS	TOTAL TON- MILES	PASSENGERS
<b>PROJECT--CONTINUED</b>				
PETERSBURG HARBOR, ALASKA (CONTINUED)	3251 STRUCTURAL CLAY PRODUCTS-----	14	-----	-----
	3291 MISC NONMETALLIC MINERAL PROD-----	418	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	1,464	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	645	-----	-----
	3611 ELECTRICAL MACH AND EQUIP-----	76	-----	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	143	-----	-----
	3731 SHIPS AND BOATS-----	12	-----	-----
	3791 MISC TRANSPORTATION EQUIPMENT-----	40	-----	-----
	4011 IRON AND STEEL SCRAP-----	3	-----	-----
	4112 COMMODITIES, NEC-----	2,342	-----	-----
	4119 EMPTY CONTAINERS-----	55	-----	-----
	<b>TOTAL-----</b>	<b>86,689</b>	<b>30,771</b>	
PORT ALFRED, ALASKA-----	2911 GASOLINE-----	42	-----	-----
	2912 JET FUEL-----	56	-----	-----
	2914 DISTILLATE FUEL OIL-----	102	-----	-----
	<b>TOTAL-----</b>	<b>200</b>	<b>-----</b>	
SELBYIA HARBOR, ALASKA-----	2414 TIMBER, POSTS, POLES, PILING-----	76	-----	-----
	2421 LUMBER-----	74	-----	-----
	2911 GASOLINE-----	234	-----	-----
	2912 JET FUEL-----	549	-----	-----
	2914 DISTILLATE FUEL OIL-----	1,381	-----	-----
	3317 IRON AND STEEL PIPE AND TUBE-----	4	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	4	-----	-----
	3731 SHIPS AND BOATS-----	7	-----	-----
	<b>TOTAL-----</b>	<b>2,335</b>	<b>\$,800</b>	
SEWARD HARBOR, ALASKA-----	0911 FRESH FISH, EXCEPT SHELLFISH-----	11,987	-----	-----
	0912 SHELLFISH, EXCEPT PREPARED-----	1,164	-----	-----
	1411 LIMESTONE-----	22	-----	-----
	1491 NONMETALLIC MINERALS, NFC-----	77	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	369	-----	-----
	2421 LUMBER-----	986	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	2,607	-----	-----
	2511 FURNITURE AND FIXTURES-----	175	-----	-----
	2871 FERTILIZER AND MATERIALS, NEC-----	330	-----	-----
	2911 GASOLINE-----	1,110	-----	-----
	2912 JET FUEL-----	372	-----	-----
	2914 DISTILLATE FUEL OIL-----	14,523	-----	-----
	3018 ASPHALT, TAR, AND PITCHES-----	45	-----	-----
	3291 MISC NONMETALLIC MINERAL PROD-----	2,150	-----	-----
	3315 IRON, STEEL SHAPES, EXC SHEET-----	3,688	-----	-----
	3317 IRON AND STEEL PIPE AND TUBE-----	91,707	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	5,506	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	160	-----	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	91	-----	-----
	3731 SHIPS AND BOATS-----	21	-----	-----
	4112 COMMODITIES, NEC-----	27	-----	-----
	<b>TOTAL-----</b>	<b>137,116</b>	<b>9,072</b>	
STIKINE RIVER, ALASKA-----	1442 SAND, GRAVEL, CRUSHED ROCK-----	7,400	-----	-----
	3011 MISC MANUFACTURED PRODUCTS-----	40	-----	-----
	4112 COMMODITIES, NEC-----	236	-----	-----
	<b>TOTAL-----</b>	<b>8,046</b>	<b>-----</b>	
<b>NONPROJECT</b>				
OTHER SOUTHEASTERN ALASKA PORTS (NET)-----	0122 HAY AND FODDER-----	2	-----	-----
	0911 FRESH FISH, EXCEPT SHELLFISH-----	2,380	-----	-----
	1462 SAND, GRAVEL, CRUSHED ROCK-----	4,339	-----	-----
	1491 SALT-----	108	-----	-----
	2011 MEAT, FRESH, CHILLED, FROZEN-----	18	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	5,648	-----	-----
	2039 PREP FRUIT AND VEG JUICE, NFC-----	25	-----	-----
	2081 ALCOHOLIC BEVERAGES-----	3,037	-----	-----
	2099 MISCELLANEOUS FOOD PRODUCTS-----	89	-----	-----
	2411 LOGS-----	272,848	-----	-----
	2412 RAFTED LOGS-----	878,071	-----	-----
	2414 TIMBER, POSTS, POLES, PILING-----	217	-----	-----
	2416 WOOD CHIPS, STAVES, HOLDINGS-----	48,798	-----	-----
	2421 LUMBER-----	78,668	-----	-----
	2431 VENEER, PLYWOOD, WORKED WOOD-----	124	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	1,789	-----	-----
	2511 FURNITURE AND FIXTURES-----	834	-----	-----
	2601 PULP-----	4,257	-----	-----
	2603 PULP AND PAPER PRODUCTS, NEC-----	75	-----	-----
	2611 BASIC CHEMICALS AND PROD, NEC-----	253	-----	-----
	2621 PLASTIC MATERIALS-----	1	-----	-----
	2651 PAINTS-----	4	-----	-----
	2801 MISC FLUOROUS CHEMICAL PROD-----	8,005	-----	-----
	2911 GASOLINE-----	27,670	-----	-----
	2912 JET FUEL-----	3,711	-----	-----
	2914 DISTILLATE FUEL OIL-----	28,780	-----	-----
	2916 LUBRICATING OILS AND GREASES-----	58	-----	-----
	2918 ASPHALT, TAR, AND PITCHES-----	6	-----	-----
	2921 LIQUEFIED GASES-----	74	-----	-----
	3091 PETROLEUM AND COAL PROD, NEC-----	128	-----	-----
	3093 MINERALS AND MISC PLASTIC PROD-----	30	-----	-----
	3261 AIRCRAFT CRASH-----	4,302	-----	-----
	3271 LIME-----	36	-----	-----
	3291 MISC NONMETALLIC MINERAL PROD-----	1,014	-----	-----

## **ALASKA DISTRICT**

91

OTHER WARRIORS AND WATERWAYS--CONTINUED

## Waterborne Commerce of the United States, 1982

## OTHER HARBOURS AND WATERWAYS--CONTINUED

HARBOUR OR WATERWAY NOV/PROJECT--CONTINUED	COMMODITY	TONS	TOTAL TON- MILES	PASSENGERS
WHITTIER HARBOR, ALASKA (CONTINUED)	2891 MISCELLANEOUS CHEMICAL PROD-----	31,176	-----	-----
	2911 GARNETHE-----	1,360	-----	-----
	2912 JET FUEL-----	14,304	-----	-----
	2914 DISTILLATE FUEL OIL-----	30	-----	-----
	2918 ASPHALT, TAR, AND PITCHES-----	2,495	-----	-----
	2921 LIQUEFIED GASES-----	1,233	-----	-----
	2951 ASPHALT BUILDING MATERIALS-----	426	-----	-----
	2991 PETROLEUM AND COAL PROD, NEC-----	1,889	-----	-----
	3011 RUBBER AND MISC PLASTIC PROD-----	1,052	-----	-----
	3211 GLASS AND GLASS PRODUCTS-----	600	-----	-----
	3241 BUILDING CEMENT-----	8,999	-----	-----
	3251 STRUCTURAL CLAY PRODUCTS-----	2,047	-----	-----
	3271 LIME-----	191	-----	-----
	3291 MISC NONMETALLIC MINERAL PROD-----	32,220	-----	-----
	3315 IRON, STEEL SHAPES, EXC SHEET-----	1,018	-----	-----
	3316 IRON AND STEEL PLATES, SHEETS-----	730	-----	-----
	3317 IRON AND STEEL PIPE AND TUBE-----	36,324	-----	-----
	3319 IRON AND STEEL PRODUCTS, NEC-----	140	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	23,019	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	23,880	-----	-----
	3611 ELECTRICAL MACH AND EQUIP-----	1,183	-----	-----
	3711 MOTION VEHICLES, PARTS, EQUIP-----	10,924	-----	-----
	3721 AIRCRAFT AND PARTS-----	8	-----	-----
	3731 SHIPS AND BOATS-----	306	-----	-----
	3791 MISC TRANSPORTATION EQUIPMENT-----	944	-----	-----
	4011 IRON AND STEEL SCRAP-----	3,473	-----	-----
	4012 NONFERROUS METAL SCRAP-----	75	-----	-----
	4112 COMMODITIES, NEC-----	30,476	-----	-----
	4119 EMPTY CONTAINERS-----	85	-----	-----
	TOTAL-----	185,065	-----	21,730

---

---

**SECTION 2**  
**TRIPS AND DRAFTS OF VESSELS**

---

---

## **LOS ANGELES, CA, DISTRICT**

95

#### TRIPS AND DRAFFTS OF VESSELS

DRAFT (FEET)		DIRECTION				DIRECTION			
		SELF PROPELLED VESSELS		NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS		TOTAL
		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO		PASSENGER AND DRY CARGO	TANKER	
<b>SAN DIEGO HARBOR, CALIF.</b>		INBOUND				OUTBOUND			
30	-	1				1			
31	-	1				1			
32	-	1				1			
33	-	1				1			
34	-	1				1			
35	-	1				1			
36	-	1				1			
37	-	1				1			
38	-	1				1			
39	-	1				1			
40	-	1				1			
41	-	1				1			
42	-	1				1			
43	-	1				1			
44	-	1				1			
45	-	1				1			
46	-	1				1			
47	-	1				1			
48	-	1				1			
49	-	1				1			
50	-	1				1			
51	-	1				1			
52	-	1				1			
53	-	1				1			
54	-	1				1			
55	-	1				1			
56	-	1				1			
57	-	1				1			
58	-	1				1			
59	-	1				1			
60	-	1				1			
61	-	1				1			
62	-	1				1			
63	-	1				1			
64	-	1				1			
65	-	1				1			
66	-	1				1			
67	-	1				1			
68	-	1				1			
69	-	1				1			
70	-	1				1			
71	-	1				1			
72	-	1				1			
73	-	1				1			
74	-	1				1			
75	-	1				1			
76	-	1				1			
77	-	1				1			
78	-	1				1			
79	-	1				1			
80	-	1				1			
81	-	1				1			
82	-	1				1			
83	-	1				1			
84	-	1				1			
85	-	1				1			
86	-	1				1			
87	-	1				1			
88	-	1				1			
89	-	1				1			
90	-	1				1			
91	-	1				1			
92	-	1				1			
93	-	1				1			
94	-	1				1			
95	-	1				1			
96	-	1				1			
97	-	1				1			
98	-	1				1			
99	-	1				1			
100	-	1				1			
101	-	1				1			
102	-	1				1			
103	-	1				1			
104	-	1				1			
105	-	1				1			
106	-	1				1			
107	-	1				1			
108	-	1				1			
109	-	1				1			
110	-	1				1			
111	-	1				1			
112	-	1				1			
113	-	1				1			
114	-	1				1			
115	-	1				1			
116	-	1				1			
117	-	1				1			
118	-	1				1			
119	-	1				1			
120	-	1				1			
121	-	1				1			
122	-	1				1			
123	-	1				1			
124	-	1				1			
125	-	1				1			
126	-	1				1			
127	-	1				1			
128	-	1				1			
129	-	1				1			
130	-	1				1			
131	-	1				1			
132	-	1				1			
133	-	1				1			
134	-	1				1			
135	-	1				1			
136	-	1				1			
137	-	1				1			
138	-	1				1			
139	-	1				1			
140	-	1				1			
141	-	1				1			
142	-	1				1			
143	-	1				1			
144	-	1				1			
145	-	1				1			
146	-	1				1			
147	-	1				1			
148	-	1				1			
149	-	1				1			
150	-	1				1			
151	-	1				1			
152	-	1				1			
153	-	1				1			
154	-	1				1			
155	-	1				1			
156	-	1				1			
157	-	1				1			
158	-	1				1			
159	-	1				1			
160	-	1				1			
161	-	1				1			
162	-	1				1			
163	-	1				1			
164	-	1				1			
165	-	1				1			
166	-	1				1			
167	-	1				1			
168	-	1				1			
169	-	1				1			
170	-	1				1			
171	-	1				1			
172	-	1				1			
173	-	1				1			
174	-	1				1			
175	-	1				1			
176	-	1				1			
177	-	1				1			
178	-	1				1			
179	-	1				1			
180	-	1				1			
181	-	1				1			
182	-	1				1			
183	-	1				1			
184	-	1				1			
185	-	1				1			
186	-	1				1			
187	-	1				1			
188	-	1				1			
189	-	1				1			
190	-	1				1			
191	-	1				1			
192	-	1				1			
193	-	1				1			
194	-	1				1			
195	-	1				1			
196	-	1				1			
197	-	1				1			
198	-	1				1			
199	-	1				1			
200	-	1				1			
201	-	1				1			
202	-	1				1			
203	-	1				1			
204	-	1				1			
205	-	1				1			
206	-	1				1			
207	-	1				1			
208	-	1				1			
209	-	1				1			
210	-	1				1			
211	-	1				1			
212	-	1				1			
213	-	1				1			
214	-	1				1			
215	-	1				1			
216	-	1				1			
217	-	1				1			
218	-	1				1			
219	-	1				1			
220	-	1				1			
221	-	1				1			
222	-	1				1			
223	-	1				1			
224	-	1				1			
225	-	1				1			
226	-	1				1			
227	-	1				1			
228	-	1				1			
229	-	1				1			
230	-	1				1			
231	-	1				1			
232	-	1				1			
233	-	1				1			
234	-	1				1			
235	-	1				1			
236	-	1				1			
237	-	1				1			
238	-	1				1			
239	-	1				1			
240	-	1				1			
241	-	1				1			
242	-	1				1			
243	-	1				1			
244	-	1				1			
245	-	1				1			
246	-	1	</td						

**• EXCLUDED PROPERTY PLANNING STRATEGY**

*Waterborne Commerce of the United States, 1982*  
**LOS ANGELES, CA, DISTRICT**

**TRIPS AND DRAFTS OF VESSELS \***

\* EXCLUDES DOMESTIC FISHING CRAFT.

# SACRAMENTO, CA, DISTRICT

97

## TRIPS AND DRAFTS OF VESSELS \*

HARBOR OR WATERWAY	DIRECTION								DIRECTION							
	SELF PROPELLED VESSELS				NON SELF PROPELLED VESSELS				SELF PROPELLED VESSELS				NON SELF PROPELLED VESSELS			
	PASSENGER DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	PASSENGER DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	PASSENGER DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
SACRAMENTO RIVER, CALIF.						UPBOUND					DOWNBOUND					
30	3	5					8	39	1							40
29	4	1					5	10								10
28	4	1					5	10	2							12
27	10	1					11	7	2							9
26		2					2	9	2							11
25	6						10	8	3							11
24	11						11	8								6
23	7						7	6								6
22	2						2	3	2							5
21	12						12	2								2
20	10	1	1				12	4								7
19	10		1				10	3								3
18	7		1				9	5								4
17	10						10									1
16	1						1	1								1
15	4						4									
14							1	1								
13							2									
11							35	35								
10							2	16								16
9							16	10								17
8							9	28								6
6 AND LESS-	6						1	7								6
TOTAL	126	11	6	66		UPBOUND	209	132	12	6	66		DOWNBOUND			214
SACRAMENTO RIVER DEEPWATER SHIPPING CHANNEL, CALIF.														DOWNBOUND		
31	2	2						4	25	1						26
30	1	1						2	14							14
29	4	1						5	10							10
28	4	1						5	10	2						12
27	10	1						11	7	2						9
26		2						12	9	1						10
25	6							10	9	3						11
24	11							11	6							6
23	7							7	6							6
22	2							2	3	2						5
21	12							12	2							7
20	10	1	1					12	4							7
19	10							10	3							3
18	7		1					8	3							4
17	10		1					10								1
16	3							1	1							1
15	8							8								1
14								1	1							
11								14	14							1
10								6	6							1
9								4	4							4
6 AND LESS-	6			1				1	1							1
TOTAL	101	9	2	30		UPBOUND	142	109	11	4	28		DOWNBOUND			152
SACRAMENTO, CALIF.														OUTBOUND		
40																1
38																1
33																8
32																
31																
30	3	5						8	14	1						10
29	4	1						5	10							10
28	4	1						5	10	2						12
27	10	1						11	7	1						9
26		2						12	9	1						11
25	6							10	8	3						11
24	11							11	6							6
23	7							7	6							6
22	2							2	3	2						5
21	12							12	2							2
20	10	1	1					12	4							7
19	10		1					10	3							3
18	7		1					8	3							4
17	10		1					10								4
16	1							1	1							1
15	4							4								1
14								2	2							3
13								2	2							3
10								2	2							3
9								1	17							17
6 AND LESS-	10		2	6			1	1								3
TOTAL	120	11	6	6		UPBOUND	163	126	12	6	4		DOWNBOUND			168
SAN JOAQUIN RIVER, CALIF.																
31	10	1						20	29	3						32
30	3	5						8	6							7
29	3	1						4	7							7
28	3	4						7	8							12
27	9							5	6	2						6
26	9	2						10	6	2						6
25	3	3						9	5	1						6

\* EXCLUDES DOMESTIC FISHING CRAFT.

*Waterborne Commerce of the United States, 1982*  
**SACRAMENTO, CA, DISTRICT**

TRIPS AND DRAFTS OF VESSELS \*

HARBOR OR WATERWAY	DIRECTION						DIRECTION					
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL
<b>SAN JOAQUIN RIVER, CALIF.--(CONTINUED)</b>												
24	6	5				11	5	2				7
23	6	1				5	6	8				16
22	5	2				7	6	3				9
21	7	1				6	14	2				16
20	8					18	2	1	3			6
19	16	1	3	1		26	5					5
18	9					71	2		2			6
17	2					8	2		1			3
16	2		1	1		2	3			1		2
15						3	2		2			3
14						2	2		1			3
13						5						3
12 AND LESS	130		57	450	11	656	130		50	469	21	670
TOTAL	252	26	63	465	23	800	233	30	62	471	22	818
<b>STOCKTON, CALIF.</b>												
20	11	7				18	32					32
28	1	4				5	7	4				11
27	2					2	1	2				3
26	6	2				8	3	1				4
25	3	2				6	3					3
24	4	2				6	4	1				5
23	2					2	5	4				5
22	3					5	3	2				4
21	7					7	6	1				7
20	8		1			0	1		1			2
19	12		10	14	6	12	3	5	1	18	4	32
18 AND LESS	11		10	14	6	87	5	1	18	16	4	42
TOTAL	70	17	19	17	6	127	71	16	19	16	4	126
<b>MIDDLE RIVER, CALIF.</b>												
TOTAL, 9 AND LESS	- - - - -		1			1			3			3
<b>MOKELUMNE RIVER, CALIF.</b>												
<b>OLD RIVER, CALIF.</b>												
TOTAL, 9 AND LESS	- - - - -		6			6			9			9

\* EXCLUDES DOMESTIC FISHING CRAFT.

# SAN FRANCISCO, CA, DISTRICT

99

TRIPS AND DRAFTS OF VESSELS \*

HARBOR OR WATERWAY		DIRECTION						DIRECTION					
		SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		
DRAFT (FEET)		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		
<b>SAN FRANCISCO BAY ENTRANCE, CALIF.</b>		UPBOUND						DOWNBOUND					
51													
50													
49													
48													
47													
46													
45													
44													
43													
42													
41													
40													
39													
38													
37													
36													
35													
34													
33													
32													
31													
30													
29													
28													
27													
26													
25													
24													
23													
22													
21													
20													
19													
18 AND LESS													
		1,599	92	210	159	76	1,936	1,307	76	210	150	77	1,884
<b>TOTAL</b>		<b>3,883</b>	<b>1,072</b>	<b>230</b>	<b>171</b>	<b>98</b>	<b>5,414</b>	<b>3,844</b>	<b>1,073</b>	<b>232</b>	<b>166</b>	<b>101</b>	<b>5,416</b>
<b>SAN FRANCISCO HARBOR, CALIF.</b>		INBOUND						OUTBOUND					
40													
39													
38													
37													
36													
35													
34													
33													
32													
31													
30													
29													
28													
27													
26													
25													
24													
23													
22 AND LESS													
		7,079	25	717	321	136	9,176	7,952	26	713	320	136	9,147
<b>TOTAL</b>		<b>8,367</b>	<b>99</b>	<b>717</b>	<b>321</b>	<b>136</b>	<b>9,680</b>	<b>8,346</b>	<b>96</b>	<b>714</b>	<b>320</b>	<b>136</b>	<b>9,612</b>
<b>REDWOOD CITY HARBOR, CALIF.</b>		INBOUND						OUTBOUND					
29													
28													
26													
25													
24 AND LESS													
		8		77	90	7	182	2		77	90	7	176
<b>TOTAL</b>		<b>8</b>		<b>77</b>	<b>90</b>	<b>7</b>	<b>183</b>	<b>0</b>		<b>77</b>	<b>90</b>	<b>7</b>	<b>184</b>
<b>OAKLAND HARBOR, CALIF.</b>		INBOUND						OUTBOUND					
35													
34													
33													
32													
31													
30													
29													
28													
27													
26													
25													
24													
23													
22 AND LESS													
		236	4	1,313	283	286	2,172	207	4	1,327	283	290	2,111
<b>TOTAL</b>		<b>1,498</b>	<b>10</b>	<b>1,313</b>	<b>283</b>	<b>286</b>	<b>3,300</b>	<b>1,478</b>	<b>10</b>	<b>1,328</b>	<b>283</b>	<b>290</b>	<b>3,309</b>
<b>RICHMOND HARBOR, CALIF.</b>		INBOUND						OUTBOUND					
60													
63													
62													
61													
		10	5		5	1	10	12	6		12	6	

\* EXCLUDES DOMESTIC FISHING CRAFT.

TANKERS WITH EXTREME DRAFTS WERE LIGHTERED FROM ANCHORAGES IN SAN FRANCISCO BAY DEEPMARSH AREA.

*Waterborne Commerce of the United States, 1982*  
**SAN FRANCISCO, CA, DISTRICT**

TRIPS AND DRAFTS OF VESSELS\*

HARBOR OR WATERWAY		DIRECTION						DIRECTION						
		SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			
		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL	PASSENGER DRY CARGO	TANKER	TOWBOAT TUGBOAT	DRY CARGO	TANKER	TOTAL	
RICHMOND HARBOR, CALIF.,--(CONTINUED)					INBOUND						OUTBOUND			
40			2				2		1				1	
39			4				4		3				3	
38			14				14		16				16	
37			52				52		45				45	
36			17				17		4				4	
35			1	20			21		13				13	
34			15				15		8				8	
33			31				31	1	28				29	
32			2	31			33	2	23				25	
31			6	16			22	1	14				17	
30			10	16			26	8	26				34	
29			11	27			38	16	28				46	
28			10	20			38	10	18				37	
27			27	8			35	22	18				40	
26			20	10			38	26	18				44	
25			18	12			30	23	13				36	
24			19	11			31	19	18				34	
23			18	5			42	20	18				40	
22 AND LESS--		357	82	881	290	825	2,435	366	93	850	294	826	2,838	
TOTAL--		911	409	1,881	309	826	2,936	523	478	850	295	827	2,928	
SAN PABLO BAY AND MARE ISLAND STRAIT, CALIF.					UPBOUND						DOWNBOUND			
46			1				1		1				1	
44			1				1		4				4	
43			1				1		1				1	
41			1				1		5				5	
40			1				1		5				5	
39			3				3		10				10	
38			5	1			6		29				30	
37			1	26			27	1	12				13	
36			1	46			48	1	32				33	
35			8	62			66	4	85				80	
34			9	37			46	9	24				34	
32			13	47			40	18	14				40	
31			16	41			57	20	16				56	
30			11	33			44	22	26				48	
29			15	35			50	19	40				50	
28			18	57			75	25	51				74	
27			24	33			57	21	20				53	
26			24	26			54	22	19				57	
25			36	29			72	32	42				76	
24			37	42			70	31	27				68	
23			32	23			40	45	26				71	
22 AND LESS--		546	136	1,678	2,013	492	4,845	525	158	1,670	2,028	494	4,874	
TOTAL--		791	688	1,679	2,023	498	5,072	784	704	1,671	2,028	495	5,098	
CARQUINEZ STRAIT, CALIF.					UPBOUND						DOWNBOUND			
37			12	1			15		46	1			47	
36			16				17	2	18				20	
35			1	40			42	1	35				36	
34			7	62			69	8	72				76	
33			7	33			80	9	25				35	
32			13	42			95	18	31				49	
31			16	34			50	20	24				44	
30			11	26			37	26	19				35	
29			19	31			46	19	25				46	
28			16	42			60	25	37				62	
27			24	22			46	24	26				50	
26			26	23			51	21	23				48	
25			36	20			60	32	38		3		60	
24			37	29			66	32	24				56	
23			32	13			47	44	19		1		65	
22 AND LESS--		519	133	212	536	526	1,926	682	120	224	537	542	1,905	
TOTAL--		765	578	213	541	528	2,625	759	578	225	541	544	2,647	
SUTBUN BAY CHANNEL, CAL.					UPBOUND						DOWNBOUND			
36			1	1			2	2	12				18	
35			6				6	2	6				6	
34			1	15			1	4	2				11	
33			6	5			6	9	2				11	
32			11	4			15	12	8				26	
31			12	7			19	12	2				14	
30			13	5			18	17	8				25	
29			13	10			23	13	6				19	
28			15	2			17	0	8				13	
27			8	4			12	15	7				22	
26			9	6			20	13	5				18	
25			17	6			23	16	8				24	
24			11	4			15	13	5				18	
23			7	6			13	10	5				15	
22			10	5			25	15	4		2		22	
21			13	3	4	3	25	15	6	2	5		21	
20			16	1		1	25	15	6	2	11		19	
19			67	10	97	520	110	633	65	10	96	524	96	793
TOTAL--		261	98	101	551	118	1,109	259	101	102	428	114	1,104	

\* EXCLUDES DOMESTIC FISHING CRAFT.

TANKERS WITH EXTREME DRAFTS WERE LIGHTERED FROM ANCHORAGES IN SAN FRANCISCO BAY DEEPWATER AREA.

## SAN FRANCISCO, CA, DISTRICT

101

## TRIPS AND DRAFTS OF VESSELS \*

HARBOR OR WATERWAY	DRAFT (FEET)	DIRECTION						DIRECTION							
		SELF PROPELLED VESSELS			NON-Self PROPELLED VESSELS			TOTAL	SELF PROPELLED VESSELS			NON-Self PROPELLED VESSELS			TOTAL
		PASSENGER OR DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER			PASSENGER OR DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		
HUMBOLDT HARBOR AND BAY, CALIF.							INBOUND							OUTBOUND	
39															1
36															3
35															3
34															3
33															3
32															3
31															3
30															3
29															7
28															6
27															6
26															6
25															5
24															5
23															5
22															2
21															3
20															6
19															11
18 AND LESS															137
TOTAL	- - - - -	98	18	57		81	246	98	18	55		78	249		
BERKELEY, CALIF.							INBOUND							OUTBOUND	
TOTAL, 6 AND LESS - - - - -		5													6
BODEGA BAY, CALIF.							NO VESSEL TRIPS REPORTED								
CRESCENT CITY HARBOR, CALIF.								INBOUND						OUTROUND	
TOTAL, 16 AND LESS - - - - -								30						21	46
HALF MOON BAY, CALIF.							NO VESSEL TRIPS REPORTED								
MONTEREY HARBOR, CALIF.								INBOUND						OUTROUND	
TOTAL, 7 AND LESS - - - - -								10							
MOSS LANDING HARBOR, CALIF.							NO VESSEL TRIPS REPORTED								
NAPA RIVER, CALIF.								UPBOUND						DOWNROUND	
TOTAL, 11 AND LESS - - - - -								1						123	141
NOVO RIVER, CALIF.							NO VESSEL TRIPS REPORTED								
PETALUMA RIVER, CALIF.								UPBOUND						DOWNROUND	
TOTAL, 8 AND LESS - - - - -								1						9	77
SAN RAFAEL CREEK, CALIF.							NO VESSEL TRIPS REPORTED								
SANTA CRUZ HARBOR, CALIF.							NO VESSEL TRIPS REPORTED								
UISSUN CHANNEL, CALIF.								UPBOUND						DOWNROUND	
TOTAL, 6 AND LESS - - - - -								15						12	12
OTHER SAN FRANCISCO BAY AREA PORTS, CALIF.								INBOUND						OUTROUND	
TOTAL, 65 AND LESS - - - - -		5,493	243	636	766	338	7,472	5,492	243	631	767	332	7,465		

\* EXCLUDES DOMESTIC FISHING CRAFT.

*Waterborne Commerce of the United States, 1982*  
**PACIFIC OCEAN DIVISION**

TRIPS AND DRAFTS OF VESSELS \*

HARBOR OR WATERWAY	DRAFT (FEET)	DIRECTION				DIRECTION				TOTAL
		SELF PROPELLED VESSELS		NON SELF PROPELLED VESSELS		SELF PROPELLED VESSELS		NON SELF PROPELLED VESSELS		
		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO
<b>MILDE HARBOR, HAWAII, HAWAII</b>										
33	-	1					1	2		
32	-						1			
31	-						1			
29	-						1			
28	-		2				2	1		
27	-						1	2		
26	-		2	1			2	1		
24	-		2				3	3		
23	-		2	1			4	1		
22	-		2		7		3	1		
21	-		2	1			3	2		
20	-		1		1		2	1		
19	-		1				2	2		
18 AND LESS	-	96	2	350	314	96	845	93	1	357
TOTAL	-	108	7	350	324	96	894	100	6	357
										893
<b>KAHAINAE HARBOR, HAWAII, HAWAII</b>										
34	-	1					1	1		
33	-		1				1	1		
30	-		2				2			
28	-						1			
26	-		1				1			
25	-		1				1			
24	-						1			
22	-						1			
21	-		2				2	2		
18 AND LESS	-	2		141	225	8	376	2		130
TOTAL	-	10		141	226	8	385	11		130
										373
<b>KAMULUII HARBOR, MAUI, HAWAII</b>										
35	-	2					2	3		
32	-	1					1	1		
31	-						1	1		
30	-	3					3	1		
29	-	2	1				3	2		
28	-	2					3	2		
27	-	1	1				2	3		
26	-	2					3	1		
25	-	4	1				4	2		
23	-	1	1				2	1		
22	-	1		115		116	3	1		115
21	-	5	1				4	1		11
20	-	1			1		2	1		2
19	-						3	6		9
18 AND LESS	-	70	1	402	385	105	902	64	1	402
TOTAL	-	93	7	402	503	105	1,110	91	7	402
										1,109
<b>BARBERS POINT HARBOR, OAHU, HAWAII</b>										
47	-	16					16			
46	-	4					4			
45	-	4						1		
44	-	15					15			
43	-	15					13			
42	-	1					1			
41	-	1					1			
40	-	1					1			
38	-	1					4			
37	-						1			
36	-	7					7			
35	-	8					8			
34	-						2	2		
33	-	6					6			
32	-	1					1			
31	-						2			
30	-						16			
29	-	2					2			
28	-						16			
27	-	2					20			
26	-						33			
25	-	3					4			
24	-						4			
23	-	1					3			
22	-	1	2				2	2		
21	-						2	2		
20	-						2	2		
19	-	1					1			
18	-						1			
17	-						1			
15	-		10				10			
14	-	1	6				7			
13	-						6	6		
12 AND LESS	-	2	1	192		20	219	2	3	188
TOTAL	-	3	97	208		20	332	5	101	208
										336

\* EXCLUDES DOMESTIC FISHING CRAFT.

## PACIFIC OCEAN DIVISION

103

## TRIPS AND DRAFTS OF VESSELS

\* EXCLUDES DOMESTIC FISHING CRAFT.

## Waterborne Commerce of the United States, 1982

## WALLA WALLA, WA, DISTRICT

## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY DRAFT (FEET)	DIRECTION						DIRECTION								
	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS			SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS					
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL			
COLUMBIA RIVER AND TRIBUTARIES ABOVE MCNARY LOCK AND DAM TO KENNEWICK, WASH.				UPBOUND						DOWNBOUND					
10			4	2		6				8	135		143		
11				161	136	297				160	203		363		
12				1,204	760	4,228		1	2,291	426	819		4,037		
13															
14															
15															
16															
17															
18 AND LESS	3	2,257													
TOTAL	3	2,261	1,371	896	4,531				2,299	1,221	1,022		4,543		
SNAKE RIVER, OREG., WASH., AND IDAHO				UPBOUND						DOWNBOUND					
10			4			5				6	80		86		
11				1	7	8				275	160		435		
12				192	85	353				236	243	322	601		
13				547	76	547				560	27	34	621		
14				326	3	333				246	230	4	480		
15				249	29	372				192	17	39	246		
16				56	21	36	113			101	38	5	224		
17				4	20	19	83			6	51	5	62		
18				19		26				15	6		21		
19				30	23	7	60			20	5		58		
20				4	7	2	13			2	4		6		
21				3	339	564	206	1,119		359	16	97	413		
22				2	240	205	445			13	41		50		
23				1		3	3			3			3		
TOTAL	5	1,811	1,004	617	3,442				1,812	1,008	667		3,488		

## **PORLAND, OR, DISTRICT**

105

**TRIPS AND DRAFTS OF VESSELS -**

\* EXCLUDES DOMESTIC FISHING CRAFT.

*Waterborne Commerce of the United States, 1982*  
**PORTLAND, OR, DISTRICT**

TRIPS AND DRAFFTS OF VESSELS\*

HARBOR OR WATERWAY	DIRECTION						DIRECTION							
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS				
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL		
<b>COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG.--(CONTINUED)</b>														
23	139	6				145	58	11				69		
22	129	8				128	45	5				51		
21	111	5				120	26	4				36		
20	159	4	21	18	3	196	99	10	16	1		86		
19	146	9	6	5	5	166	24	6	6			76		
18 AND LESS	4,667	17	16,899	5,599	2,551	31,703	4,674	79	16,904	5,670	2,563	31,703		
TOTAL	6,910	297	16,926	5,598	2,563	33,398	6,006	297	16,926	6,680	2,563	33,478		
<b>YOUNG'S RAY AND YOUNG'S RIVER, OREG.</b>														
11						UPBOUND								
10														
9														
8														
7														
6														
5														
4														
3														
2														
TOTAL						312	15	10	335		295	20	15	325
<b>PORT OF ASTORIA, OREG.</b>														
37						INBOUND								
36														
35														
34														
33														
32														
31														
30														
29														
28														
27														
26														
25														
24														
23														
22														
21														
20														
19														
18 AND LESS	31	2	8			1	46	27	4	1		37		
TOTAL	65	1	2,120	223	260	2,660	33	3	2,220	223	282	2,761		
TOTAL	290	13	2,132	223	261	2,679	266	7	2,233	225	282	3,013		
<b>PORTS OTHER THAN PORTLAND, ASTORIA, ST. HELENS, LONGVIEW, VANCOUVER AND KALAMA</b>														
37						INBOUND								
36														
35														
34														
33														
32														
31														
30														
29														
28														
27														
26														
25														
24														
23														
22														
21														
20														
19														
18 AND LESS	32	2	4			1	35	1	1			39		
TOTAL	7	2,628	932	43	3,810	4	2,823	930	43	3,808				
<b>PORT OF LONGVIEW, WASH.</b>														
39						INBOUND								
38														
37														
36														
35														
34														
33														
32														
31														
30														
29														
28														
27														
26														
25														
24														
23														
22														
21														
20														
19														
18														
17														
16														
15														
14														
13														
12 AND LESS	33	1	14	13	10	31	51	1	2	10	9	11		
TOTAL	8	2,673	868	282	4,031	322	17	2,871	920	284	4,069	4,401		

\* EXCLUDES DOMESTIC FISHING CRAFT.

## PORTLAND, OR, DISTRICT

107

## TIMES AND DRAFFTS OF VESSELS \*

HARBOR OR WATERWAY	DRAFT (FEET)	DIRECTION						DIRECTION					
		SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		
		PASSENGER AND DRY CARGO	TANKER	TOBBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL	PASSENGER AND DRY CARGO	TANKER	TOBBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL
<b>PORT OF KALAMA, WASH.</b>													
30	1												
35	1												
34	1												
33	8												
32													
31													
30													
29													
28													
27													
26													
25													
24													
23													
22													
21													
20													
19													
18 AND LESS	1												
TOTAL	10	0	378	154	30	576	2	0	370	150	30	601	
			378	154	30	500	20	0	370	150	30	600	
<b>MULTNOMAH CHANNEL, OREG.</b>													
16													
12													
11													
10	2												
9	28	64	15	15	15	15	6	0	125	131	131		
8	45	1	6	6	6	6	273	273	273	273	273		
7	348	1	15	15	15	15	298	298	298	298	298		
6	175						309	309	309	309	309		
5	338	2	2	2	2	2	310	310	310	310	310		
4	639	1					320	320	320	320	320		
3	16	10	10	10	10	10	321	321	321	321	321		
2	1	364					322	322	322	322	322		
TOTAL	1,588	673	173	2,236			1,588	673	173	2,236			
<b>OREGON BLOUGH (NORTH PORTLAND HARBOR), OREG.</b>													
20													
18													
17													
15	10	3	3	3	3	3	30	30	30	30	30		
12	37						31	31	31	31	31		
11	48	1	1	1	1	1	48	48	48	48	48		
10	99	75	15	15	15	15	103	103	103	103	103		
9	90	74	15	15	15	15	104	104	104	104	104		
8	919	52	6	6	6	6	97	97	97	97	97		
7	26	52	6	6	6	6	24	24	24	24	24		
6	13	5	6	6	6	6	20	20	20	20	20		
5	28	4	5	5	5	5	18	18	18	18	18		
4	67	2	3	3	3	3	16	16	16	16	16		
3	139	8	8	8	8	8	134	134	134	134	134		
2	56	22	22	22	22	22	76	76	76	76	76		
TOTAL	66	735	603	93	1,200	66	766	605	606	1,395			
<b>PORT OF VANCOUVER, WASH.</b>													
35	9												
34	1												
33													
32													
31													
30													
29													
28													
27													
26													
25													
24													
23													
22													
21													
20													
19													
18 AND LESS	10	1	2,394	134	600	3,335	2	2,394	134	600	3,335		
TOTAL	126	0	2,662	134	600	3,470	115	10	2,661	134	600	3,468	
<b>COLUMBIA RIVER BETWEEN VANCOUVER, WASH., AND THE DALLES, OREG.</b>													
16													
15													
14													
13													
12	142	220	102	102	102	102	520	520	520	520	520	520	
11	656	9	26	26	26	26	656	656	656	656	656	656	
10	204	67	190	190	190	190	321	321	321	321	321	321	
9	381	67	190	190	190	190	610	610	610	610	610	610	
8	582	62	60	60	60	60	673	673	673	673	673	673	
7	766	511	6	6	6	6	1,095	1,095	1,095	1,095	1,095	1,095	
6 AND LESS	669	1,031	310	310	310	310	3,082	664	1,026	653	150	1,720	
TOTAL	668	3,094	2,104	983	7,149	664	1	3,094	2,104	983	7,149		

\* EXCLUDES DOMESTIC FISHING CRAFT.

*Waterborne Commerce of the United States, 1982*  
**PORTLAND, OR, DISTRICT**

TRIPS AND DRAFTS OF VESSELS \*

HARBOR OR WATERWAY		DIRECTION				DIRECTION									
		SELF PROPELLED VESSELS		NON SELF PROPELLED VESSELS		SELF PROPELLED VESSELS		NON SELF PROPELLED VESSELS							
DRAFT (FEET)	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL			
<b>COLUMBIA RIVER ABOVE THE DALLES DAM, WASH., AND OREG., TO McNARY LOCK AND DAM, OREG., AND WASH.</b>															
15				6		6				33		30			
14				22		22				103		103			
13				22	162	184				347	231	578			
12				170	44	200	423			170	404	386	960		
11				400		400				409	24	42	479		
10				156	26	2	186			156	277	2	457		
9				40	87	135	249			46	25	95	126		
8				162	46	41	249			162	47	6	215		
7				33	55	6	94			37	30	4	92		
6				27	1	5	33			27	1	0	36		
5				13	27	9	40			10	7		17		
4					5	1	6			1	3		4		
3				2	381	701	160	1,276	2	330	21	75	435		
2					331	127	858			28	37	65			
1										1		1			
<b>TOTAL</b>				<b>2</b>	<b>1,376</b>	<b>1,367</b>	<b>846</b>	<b>3,591</b>	<b>2</b>	<b>1,376</b>	<b>1,362</b>	<b>846</b>	<b>3,596</b>		
<b>PORT OF PORTLAND, OREG.</b>															
40				1		1				1		2			
39				4		5				5		6			
37				3	16	10	6			10	6	12			
36				4	12	16	12			16	2	14			
35				6	9	15	20			15	7	57			
34				65	23	88	72			88	4	81			
33				62	8	70	70			70	17	82			
32				23	30	53	36			53	6	42			
31				35	29	68	73			68	8	51			
30				19	16	35	64			35	4	68			
29				38	21	59	67			59	14	95			
28				41	15	56	57			56	14	71			
27				60	9	49	64			49	17	81			
26				50	10	77	65			77	25	70			
25				46	12	60	48			60	12	60			
24				69	9	50	46			50	14	65			
23				78	3	81	81			81	37	45			
22				36	5	41	26			41	22	30			
21				33	2	30	15			30	6	24			
20				57	3	16	1			57	2	46			
19				51	5	65	17			65	6	75			
18 AND LESS				89	12	10,596	3,997	2,061	16,726	89	63	10,594	3,997	2,070	16,772
<b>TOTAL</b>				<b>835</b>	<b>262</b>	<b>10,605</b>	<b>3,997</b>	<b>2,071</b>	<b>17,770</b>	<b>836</b>	<b>262</b>	<b>10,604</b>	<b>3,997</b>	<b>2,070</b>	<b>17,769</b>
<b>WILLAMETTE RIVER ABOVE PORTLAND AND YAMhill RIVER, OREG.</b>															
11				2	2	4				2		2			
10				31	161	13	229			130	418	2	950		
9				52	695	3	708			67	502	9	654		
8				476	234	8	716			605	212		857		
7				316	705	1	1,020			361	452		993		
6				192	133	1	326			222	34		796		
5				906	4	940	32			625	40		796		
4				600	153	1,057	1,057			618	386		1,200		
3				53	1,085	1,130				88	687	16	751		
2				72	622	2	696			70	486	5	921		
1					76	76	76			10		10			
<b>TOTAL</b>				<b>30</b>	<b>3,004</b>	<b>3,886</b>	<b>28</b>	<b>6,948</b>	<b>32</b>	<b>3,004</b>	<b>3,886</b>	<b>28</b>	<b>6,950</b>		
<b>COQUILLE RIVER, OREG.</b>															
12											3		3		
10				4		4				86		96			
9				2	86	86				2		66			
8				86		86				86		66			
6 AND LESS					4	4				2		2			
<b>TOTAL</b>					<b>92</b>	<b>90</b>		<b>182</b>		<b>92</b>	<b>91</b>		<b>183</b>		
<b>COOS BAY, OREG.</b>															
37										2		2			
36				2		2				6		6			
35				2		2				10		10			
34				6		6				46		46			
33				15	1	16	66			46		50			
32				20		20	10			46		46			
31				21		21	10			46		46			
29				21		21	11			46		46			
28				14	7	21	11			46		46			
27				14	6	20	11			46		46			
26				16	2	18	9			46		46			
25				20	1	21	1			46		46			
24				25	1	21	6			46		46			
23				26		26	11			46		46			
22				22		22	9			46		46			
21				16	1	17	1			46		46			

\* EXCLUDES DOMESTIC FISHING CRAFT.

## PORTLAND, OR, DISTRICT

109

## TRIPS AND DRAFTS OF VESSELS \*

HARBOR OR WATERWAY	DRAFT (FEET)	DIRECTION				DIRECTION					
		SELF PROPELLED VESSELS		NON SELF PROPELLED VESSELS		SELF PROPELLED VESSELS		NON SELF PROPELLED VESSELS			
		PASSENGER AND DRY CARGO	TANKER	TUGBOAT TUGCAT	DRY CARGO	TANKER	PASSENGER AND DRY CARGO	TANKER	DRY CARGO	TANKER	TOTAL
COOS BAY, OREG.,--(CONTINUED)					INBOUND						OUTBOUND
10		22				5	27	4			6
10			7			4	11			1	1
17			8			2	6			4	4
16			1	7		6	12			1	3
15				5		1	7			4	3
18					61	1	48			2	66
13					7	6	12			4	12
12 AND LESS--		8	2,650	245	13	3,125		2,860	286	22	3,518
TOTAL--		293	19	2,939	249	33	3,533	282	19	2,938	289
COOS AND MILLICOMA RIVERS, OREG.					UPROUND						DOWNROUND
6						360	360			245	245
5						831	836			1,038	1,040
8						303	303			224	226
TOTAL--						1,503	1,508			1,503	1,509
UMPAWA RIVER, OREG.					UPROUND						DOWNROUND
14						23	23			25	25
13						2	2				
12						3	3				
11						5	5			3	3
10						2	123			121	125
9										0	0
8						121	121			121	210
7						169	149	1	310	30	30
6 AND LESS--						169	149	1	310	169	172
TOTAL--						322	275	1	508	322	507
BUCHANAN RIVER, OREG.					UPROUND						DOWNROUND
10						146	146			146	146
8						130	139			153	153
5						120	120			105	104
TOTAL--						259	146		405	258	406
YACQUINA BAY AND HARBOR, OREG.					UPROUND						DOWNROUND
31											1
20						1	1				
13										16	16
12 AND LESS--		3	767	767		1,407	2	788	732	1,482	
TOTAL--		4	767	767		1,608	3	788	788	1,600	
ALSEA BAY AND RIVER, OREG.					NO VESSEL TRIPS REPORTED						
CHEMCO RIVER, OREG.											
TOTAL, 12 AND LESS--					50	50	100		50	40	90
CHINOOK CHANNEL, WASH.					NO VESSEL TRIPS REPORTED						
CLATSOPANIE RIVER, OREG.											
TOTAL, 6 AND LESS--					1	1	1		1		1
COLUMBIA RIVER AT BAKERS BAY, WASH.					NO VESSEL TRIPS REPORTED						
COLUMBIA SLOUGH, OREG.					NO VESSEL TRIPS REPORTED						
COWLITZ RIVER, WASH.											
TOTAL, 6 AND LESS--					0	0	0		0		0
DEEP RIVER, WASH.											
TOTAL, 11 AND LESS--					121	8	329		121	7	120
DEPOE BAY, OREG.					NO VESSEL TRIPS REPORTED						
ELKOMON SLOUGH, WASH.											
TOTAL, 6 AND LESS--					26	26	26		26		25
GRAYS RIVER, WASH.					NO VESSEL TRIPS REPORTED						
LAKE RIVER, WASH.											
TOTAL, 6 AND LESS--		192	8		UPROUND		190	182	14		DOWNROUND
											196

\* EXCLUDES DOMESTIC FISHING CRAFT.

*Waterborne Commerce of the United States, 1982*  
**PORTLAND, OR, DISTRICT**

TRIPS AND DRAFTS OF VESSELS \*

HARBOR OR WATERWAY DRAFT (FEET)	DIRECTION						DIRECTION				
	SELF PROPELLED VESSELS		NON SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS		NON SELF PROPELLED VESSELS		TOTAL	
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT			
LEWIS RIVER, WASH. TOTAL, 8 AND LESS - - - - -				138	71	209			138	DOWNROUND 73	211
PORT OF ST. HELENS, OREG. TOTAL, 12 AND LESS - - - - -				194	77	271			202	OUTBOUND 83	285
PORT ORFORD, OREG.	NO VESSEL TRIPS REPORTED										
ROGUE RIVER, OREG. TOTAL, 10 AND LESS - - - - -	1,045	70		70		1,115	1,045		70	DOWNROUND 70	1,185
SKAMOKAWA (STEAMBOAT) BLAUGH, WASH. TOTAL, 11 AND LESS - - - - -						6			6	DOWNROUND	
SKAMOKAWA CREEK, WASH. TOTAL, 6 AND LESS - - - - -				1					1	DOWNROUND	1
SKIPANON CHANNEL, OREG. TOTAL, 11 AND LESS - - - - -				86	35	121			75	DOWNROUND 56	129
SMITH RIVER, OREG. TOTAL, 7 AND LESS - - - - -				57	7	64			57	DOWNROUND 7	66
TILLAMOOK BAY AND BAR, OREG.	NO VESSEL TRIPS REPORTED										
WESTPORT SLAUGH, OREG. TOTAL, 12 AND LESS - - - - -	4,380			77	54	4,511	4,380		70	DOWNROUND 51	4,501
YACQUINA RIVER, OREG. TOTAL, 13 AND LESS - - - - -				26	6	32			26	DOWNROUND 6	32

\* EXCLUDES DOMESTIC FISHING CRAFT.

# SEATTLE, WA, DISTRICT

111

## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY DRAFT (FEET)	DIRECTION					DIRECTION						
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			TOTAL		
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER DRY CARGO	TANKER	TOWBOAT TUGBOAT			
<b>GRAYS HARBOR AND CHEHALIS RIVER, WASH.</b>												
35		1				1	7			7		
34							96			96		
33		1					28			28		
32							27			27		
31		3					13			13		
30		3					12			12		
29		3					4			4		
28		8					6			6		
27		9					6			6		
26		13					1			1		
25		3					4			4		
24		5					5			5		
23		10					2			2		
22		20					20			20		
21		25					25			25		
20		53					5			5		
19		42					42			42		
18		16					17			17		
17		6					6			6		
16		1					1			1		
15		2					4			4		
14												
13		1										
12 AND LESS	18,058	1,650	337	20,050	18,057	1,666	337	20,060	20,066			
TOTAL	18,275	1,661	337	20,278	18,275	1,672	338	20,286				
<b>PORT ANGELES HARBOR, WASH.</b>												
36		5	7			12	6	22	2	30		
35		5					5	6		11		
34		2	1				3	3		6		
33		1					1	1		2		
32		8	3				7	10		10		
31		1	1				2	2		4		
30		4	1				5	16		16		
29		2	1				3	5		5		
28		2	1				3	5		5		
27		8	1				5	6		7		
26		2	2				8	3		6		
25		6	2				8	7		7		
24		5					5	2		2		
23		6	2				8	7		9		
22		6					7	1		1		
21		13	1				13	5		12		
20		6					12	7		6		
19		17					15	2		16		
18 AND LESS	15,522	7	1,597	310	310	15,556	11,270	0	1,634	304	313	13,530
TOTAL	11,413	30	1,605	310	310	13,678	11,372	47	1,641	304	313	13,670
<b>PORT TOWNSEND HARBOR, WASH.</b>												
TOTAL, 22 AND LESS	5,300	5	1,286	900	40	7,615	5,300	3	1,185	1,017	42	7,615
<b>PORT GAMBLE HARBOR, WASH.</b>												
16						2			2			
15						2			2			
14						6			2			
13						10			6			
12 AND LESS				533	317	1	851		538	309	1	858
TOTAL				560	317	2	868		566	311	1	878
<b>HAMMERSLEY INLET, WASH.</b>												
12						6			6			
11									2			
10				220	77		297		192	106		294
9				51			51		95			55
8				97	70		5,762		115	63		158
7				2			2		6			6
6 AND LESS				28	180		216	5,611	52	108		5,881
TOTAL	5,611	406	339	6,354	5,611		6,366	5,611	406	307		6,366
<b>OLYMPIA HARBOR, WASH.</b>												
30								16				
29							1					
28							2					
27							1					
26							2					
25							3					
24							3					
23							3					
21							5					
20							6					
19							1					
18							1					
17							1					
16 AND LESS	3,931	12	507	0	42	6,190	3,925	10	607	9	41	6,192
TOTAL	3,931	12	507	0	42	6,210	3,950	10	607	9	41	6,217

*Waterborne Commerce of the United States, 1982*  
**SEATTLE, WA, DISTRICT**

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY		DIRECTION						DIRECTION						
		SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		
DRAFT (FEET)	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		DRY CARGO	TANKER	
<b>TACOMA HARBOR, WASH.</b>														
35	17	7							28	73	8			77
34	2	2							8	34				34
33	5	2							5	25	1			26
32	9	4							13	42	2			46
31	12	6							18	25				25
30	17	3							20	37	4			41
29	27	3							30	37	5			49
28	153	4	2						159	153	8			163
27	52								61	45	8			61
26	60	10							70	42	7			93
25	69	6							77	36	8			84
24	66								76	38	7			95
23	88	5							58	46	7			93
22	35	3							76	32	8			66
21	46	2							48	35	2			57
20	52	1	10						64	24	1	10		35
19	37								81	22	1			33
18	6,808	2	5	1	1				6,808	6,878	3	6		11
17	11	2	416						430	4	2	421	1	1
16	5	1	235						247	5	1	234	3	1
15	22		152						224	1	1	158	14	74
14	2	2	299						367	1	3	306	14	84
13	23		702						750	21	1	702	24	30
12 AND LESS	3,155	18	7,700	1,318	762				12,473	3,158	19	7,754	1,102	878
TOTAL	10,780	100	9,521	1,372	948				22,725	10,790	99	9,593	1,211	1,093
														22,786
<b>SEATTLE HARBOR, WASH.</b>														
36	6	15							21	14	10			26
35	9	4							13	17	1			18
34	5	7							12	25				23
33	20	13							41	46	2			46
32	66								72	104	7			111
31	72	11							83	117	8			121
30	56	6							62	93	3			96
29	85	6							61	82	8			90
28	113	10							123	116	16			132
27	124	5							130	93	10			103
26	97	7							104	69	15			84
25	50	7							67	45	8			53
24	66	9							75	24	6			35
23	50	7							63	34	8			41
22	53	8							2	39	31	1		38
21	26	8							5	41	35			37
20	22		68	2	5				97	26	6	71	2	104
19	21	2	13	5	25				46	25	6	17	10	59
18 AND LESS	46,497	109	13,691	4,229	2,485				67,003	46,497	131	13,620	4,229	2,487
TOTAL	87,420	232	13,772	4,241	2,520				68,203	47,495	238	13,717	4,282	2,500
														68,192
<b>LAKE WASHINGTON SHIP CANAL, WASH.</b>														
TOTAL, 22 AND LESS	308	84	1,565	740	96				2,703	307	84	1,573	801	74
														2,839
<b>EVERETT HARBOR AND SWINOMYTH RIVER, WASH.</b>														
34	7								7	30				30
33	3								3	23				23
32	5								5	0				0
31	7								7	10				10
30	3								3	12				12
29	7								7	19				19
28	5								5	12				12
27	6								6	16				16
26	10								10	18				18
25	11								11	8				8
24	7								7	7				7
23	7								7	6				6
22	6								6	2				2
21	13								13	1				1
20	10								18	7				7
19	10								16	2				2
18 AND LESS	9,966	1	7,882	485	234				17,568	8,920	1	7,890	471	222
TOTAL	9,997	1	7,882	485	234				17,699	9,108	1	7,890	471	222
														17,701
<b>SWINOMYTH CHANNEL, WASH.</b>														
15		4							4		12			12
14		4							4		6			6
13		85							45		2			2
11		46							46		85			85
10		26							26		48			48
9		4							4		40			40
8		17,246	19						17,265	187	17,246	180		17,415
7 AND LESS		17,246	187						17,266		381			17,627
TOTAL	17,246	375							17,621	17,246				

## SEATTLE, WA, DISTRICT

113

## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION						DIRECTION						
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			
	DRAFT (FEET)	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL
<b>ANACORTES HARBOR, WASH.</b>													
35		60					60		16				
34		35					35		26				
33		10					10		12				
32		7					7	1	9				
31		4					4		4				
30		2					2		11				
29		1	7				1		1				
28		1	12				13	2	15				
27		7					7		17				
26		6					6		6				
25		3					3		8				
24									10				
23		1	3				2	6	5				
22		1	4				1	6	5				
21			18	1			1	1	1				
20							19		1				
19		2					4		5				
18 AND LESS		14,268	14	1,616	325	275	16,689	14,260	19	1,633	324	294	16,530
TOTAL		16,274	192	1,617	325	281	16,689	14,264	190	1,634	324	304	16,716
<b>BELLINGHAM BAY AND HARBOR, WASH.</b>													
31		5					5	8	3				
30		1					1	1	1				
29		2	1				3	4	3				
28								6	2				
27		8					8	2	5				
26		4	1				5	5	2				
25		4	4				8	4	6				
24		2	2				4	7	2				
23		2	2				4	2	1				
22		7	3				8	2	1				
21		1					10	3	3				
20		2	3				15	1	1				
19		4					8	1	1				
18 AND LESS		30,254	13	1,714	672	76	32,731	30,259	3	1,677	691	60	32,670
TOTAL		30,298	29	1,714	672	76	32,780	30,286	30	1,678	691	60	32,748
<b>BLAINE HARBOR, WASH.</b>													
TOTAL, 8 AND LESS		15,289					15,289	15,289					15,289
<b>COLUMBIA RIVER BETWEEN WENATCHEE AND KETTLE FALLS, WASH.</b>													
TOTAL, 11 AND LESS		18,820		18	3		18,649	18,628		23	3		18,454
<b>FLATHEAD LAKE, MONT.</b>													
NO VESSEL TRIPS REPORTED													
<b>MOQUITAM RIVER, WASH.</b>													
TOTAL, 10 AND LESS		7,543		1,379			8,922	7,543		1,370			8,913
<b>KOOTENAI RIVER, IDAHO AND MONT.</b>													
NO VESSEL TRIPS REPORTED													
<b>MEAH BAY, WASH.</b>													
TOTAL, 10 AND LESS		12,763		12	1	5	12,781	12,763		6	1	5	12,775
<b>QUILLAYUTE RIVER, WASH.</b>													
TOTAL, 8 AND LESS		1,581					1,581	1,581					1,581
<b>SKAGIT RIVER, WASH.</b>													
TOTAL, 12 AND LESS				30	9		30			22	9		31
<b>STILLAGUAMISH RIVER, WASH.</b>													
NO VESSEL TRIPS REPORTED													
<b>WATERWAY CONNECTING PORT TOWNSEND BAY AND OAK BAY, WASH.</b>													
TOTAL, 15 AND LESS				105	6		111			234	20		254
<b>WILLAPA RIVER AND HARBOR, AND NABELLE RIVER, WASH.</b>													
TOTAL, 12 AND LESS		8,524					8,524	8,524					8,524
<b>COEUR D'ALENE LAKE AND ST. JOE RIVER, IDAHO</b>													
TOTAL, 11 AND LESS				791	13		804			1,205	21		1,226
<b>OTHER PUGET SOUND AREA PORTS, WASH.</b>													
TOTAL, 95 AND LESS		96,376	251	4,183	2,010	667	103,847	96,267	228	4,243	2,022	700	103,660

*Waterborne Commerce of the United States, 1982*

**114**

**ALASKA DISTRICT**

TRIPS AND DRAFTS OF VESSELS \*

HARBOR OR WATERWAY		DIRECTION						DIRECTION					
DRAFT (FEET)		SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS	TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	
		PASSENGER AND DRY CARGO	TANKER	TUGBOAT OR TUGBOAT			DRY CARGO	TANKER	DRY CARGO	TANKER	DRY CARGO	TANKER	
<b>KETCHIKAN HARBOR, ALASKA</b>													
10	-	11	1			12	24	1					26
29	-	8				8	19	1					20
28	-	2	1			3	3	1					4
27	-	6	1			7	3						3
26	-	25	4			26	31						31
25	-	23	1			23	22	1					23
24	-	8	1			10	7						7
23	-	20				21	15						15
22	-	18				21	18	1					19
21	-	3				3	4						5
20	-	7				15	16						26
19	-	36	6			42	20	1					36
18	-	8	2			11	3	6					19
17	-	12	4			16	5	2					7
16	-	1,102	2			1,104	1,098					1	1,099
15	-	6	34			57	4					5	40
14	-	5	144	19		171	6					3	127
13	-	10	32	2		1	45	10				1	43
12 AND LESS	-	12,482	12	552	490	213	14,129	12,876	2	594	495	223	14,188
TOTAL	-	14,192	17	786	522	224	15,744	14,189	16	784	523	230	15,742
<b>WRANGELL HARBOR, ALASKA</b>													
27	-	9				9	24						27
26	-	1				1	1						1
25	-	1				1	1						1
24	-	1				1	1						1
23	-	3				3							
22	-	2				2	2						2
21	-	3				3							
20	-	8				8	2						2
19	-	22				22	18						18
18	-	2				2	1						1
16	-	459				459	458						458
15	-	1	3			8	2						5
14	-	69				49						62	62
13	-	14				14						14	14
12 AND LESS	-	59	207			611	59						596
TOTAL	-	571	513	224	81	1,119	571						1,118
<b>WRANGELL NARROWS, ALASKA</b>													
21	-												1
20	-			2			2	1					1
19	-	1	1				2	1					
18	-	1	6				6						
17	-	5	2				7	9					5
16	-	4,345				4,345	958						954
15	-	1	11			1	13						27
14	-	2	105			107	1						127
13	-	2	26	12		40	3						37
12 AND LESS	-	73	494	241	237	1,045	31	10	263	207	198		704
TOTAL	-	8,429	11	656	253	280	5,539	906	10	401	256	198	1,861
<b>SITKA HARBOR, ALASKA</b>													
27	-	20				20	32	1					33
26	-	7				7	6						6
25	-	33				33	34						34
24	-	7				7	7						7
23	-	18				14	18						18
22	-	1				1							
21	-	1				1							
20	-	5				5	5						5
19	-	23				24	9						9
18	-	2				2							
17	-	2				2	2						2
16	-	229				229	229						229
15	-	32	37			69	2						34
14	-	1	71	2		74	1						97
13	-	6		2		10	1						11
12 AND LESS	-	10	112	117	96	340	16	1	122	110	98		356
TOTAL	-	358	2	223	156	90	838	358	1	224	156	98	837
<b>BERGIUS AND WHITERTONE NARROWS, ALASKA</b>													
16	-	293		5	19		293	165					165
15	-			62	20		26						56
14	-			1	10		82	1					
13	-						11						
12	-						3	3					
11	-						11						
10	-						12	106					
9	-						61						
8	-						23						
7	-						16						
6	-						26						
5	-						11	14					
4	-						3	3					
3	-						24	30					
2	-						58						
1	-												
TOTAL	-												46

\* EXCLUDED DOMESTIC FISHING CRAFT.

## ALASKA DISTRICT

115

## TRIPS AND DRAFTS OF VESSELS \*

HARBOR OR WATERWAY		DIRECTION						DIRECTION						
		SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS			SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS			
		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL	
<b>SERGIUS AND WHITESTONE NARROWS, ALASKA--(CONTINUED)</b>														
3	-	-	-	-	7	8	11	-	-	-	9	1	10	
2	-	-	-	-	1	7	8	-	-	-	3	3	3	
<b>TOTAL</b>				297	191	134	710	171	1	182	96	86	536	
<b>SKAGWAY HARBOR, ALASKA</b>														
31	-	-	-	-	-	-	-	1	-	-	-	-	-	
30	-	-	-	-	-	-	-	4	-	-	-	-	-	
29	-	-	-	-	-	-	-	1	-	-	-	-	-	
28	-	-	-	-	-	-	-	1	-	-	-	-	-	
27	-	-	-	-	-	-	-	1	-	-	-	-	-	
26	-	-	-	-	16	-	16	-	-	-	-	-	-	
25	-	-	-	-	91	-	91	92	-	-	-	-	-	
24	-	-	-	-	-	-	-	2	-	-	-	-	-	
23	-	-	-	-	-	-	-	1	-	-	-	-	-	
22	-	-	-	-	16	-	16	14	-	-	-	-	-	
21	-	-	-	-	9	-	9	2	-	-	-	-	-	
20	-	-	-	-	6	-	6	6	-	-	-	-	-	
19	-	-	-	-	15	-	15	10	-	-	-	-	-	
18	-	-	-	-	7	-	7	5	-	-	-	-	-	
17	-	-	-	-	4	-	6	1	-	-	-	-	-	
16	-	-	-	-	246	1	247	246	1	-	-	-	-	
15	-	-	-	-	3	1	4	2	2	-	-	-	-	
14	-	-	-	-	-	-	6	7	-	-	-	-	-	
13	-	-	-	-	-	-	2	3	-	-	-	-	-	
12 AND LESS	-	-	-	-	14	11	3	21	39	18	3	11	66	
<b>TOTAL</b>				426	2	14	3	19	426	2	22	3	18	471
<b>VALDEZ HARBOR, ALASKA</b>														
74	-	-	-	-	-	-	-	-	3	-	-	-	-	
73	-	-	-	-	-	-	-	-	12	-	-	-	-	
72	-	-	-	-	-	-	-	-	54	-	-	-	-	
71	-	-	-	-	-	-	-	-	28	-	-	-	-	
70	-	-	-	-	-	-	-	-	10	-	-	-	-	
69	-	-	-	-	-	-	-	-	4	-	-	-	-	
68	-	-	-	-	-	-	-	-	17	-	-	-	-	
67	-	-	-	-	-	-	-	-	9	-	-	-	-	
66	-	-	-	-	-	-	-	-	15	-	-	-	-	
65	-	-	-	-	-	-	-	-	12	-	-	-	-	
64	-	-	-	-	-	-	-	-	1	-	-	-	-	
63	-	-	-	-	-	-	-	-	2	-	-	-	-	
62	-	-	-	-	-	-	-	-	2	-	-	-	-	
61	-	-	-	-	-	-	-	-	11	-	-	-	-	
60	-	-	-	-	-	-	-	-	54	-	-	-	-	
59	-	-	-	-	-	-	-	-	62	-	-	-	-	
58	-	-	-	-	-	-	-	-	39	-	-	-	-	
57	-	-	-	-	-	-	-	-	18	-	-	-	-	
56	-	-	-	-	-	-	-	-	17	-	-	-	-	
55	-	-	-	-	-	-	-	-	42	-	-	-	-	
54	-	-	-	-	-	-	-	-	42	-	-	-	-	
53	-	-	-	-	-	-	-	-	23	-	-	-	-	
52	-	-	-	-	-	-	-	-	50	-	-	-	-	
51	-	-	-	-	-	-	-	-	28	-	-	-	-	
50	-	-	-	-	-	-	-	-	10	-	-	-	-	
49	-	-	-	-	-	-	-	-	9	-	-	-	-	
48	-	-	-	-	-	-	-	-	14	-	-	-	-	
47	-	-	-	-	-	-	-	-	9	-	-	-	-	
46	-	-	-	-	-	-	-	-	15	-	-	-	-	
45	-	-	-	-	-	-	-	-	9	-	-	-	-	
44	-	-	-	-	36	-	36	-	46	-	-	-	-	
43	-	-	-	-	23	-	23	-	46	-	-	-	-	
42	-	-	-	-	35	-	35	-	35	-	-	-	-	
41	-	-	-	-	28	-	28	-	24	-	-	-	-	
40	-	-	-	-	31	-	31	-	23	-	-	-	-	
39	-	-	-	-	13	-	13	-	6	-	-	-	-	
38	-	-	-	-	22	-	22	-	2	-	-	-	-	
37	-	-	-	-	27	-	27	-	3	-	-	-	-	
36	-	-	-	-	26	-	26	-	7	-	-	-	-	
35	-	-	-	-	34	-	34	-	9	-	-	-	-	
34	-	-	-	-	29	-	29	-	1	-	-	-	-	
33	-	-	-	-	39	-	39	-	1	-	-	-	-	
32	-	-	-	-	60	-	60	-	1	-	-	-	-	
31	-	-	-	-	70	-	70	-	1	-	-	-	-	
30	-	-	-	-	73	-	73	-	2	-	-	-	-	
29	-	-	-	-	34	-	34	-	1	-	-	-	-	
28	-	-	-	-	47	-	47	-	4	-	-	-	-	
27	-	-	-	-	8	-	8	-	51	-	-	-	-	
26	-	-	-	-	42	-	42	-	45	-	-	-	-	
25	-	-	-	-	32	-	32	-	32	-	-	-	-	
24	-	-	-	-	16	-	16	-	16	-	-	-	-	
23	-	-	-	-	14	-	14	-	14	-	-	-	-	
22	-	-	-	-	8	-	8	-	8	-	-	-	-	
21	-	-	-	-	2	-	2	-	1	-	-	-	-	
20	-	-	-	-	2	5	9	1	16	-	8	-	29	
19	-	-	-	-	1	6	6	1	1	17	8	-	17	
18	-	-	-	-	16	6	22	1	16	5	9	-	9	
17	-	-	-	-	-	-	1	1	2	9	9	-	9	
16	-	-	-	-	208	7	2	2	217	206	2	9	217	
15	-	-	-	-	8	2	3	3	16	2	2	1	2	
14	-	-	-	-	-	-	-	-	-	-	-	1	1	

\* EXCLUDES DOMESTIC FISHING CRAFT.

*Waterborne Commerce of the United States, 1982*

**116**

**ALASKA DISTRICT**

TRIPS AND DRAFTS OF VESSELS \*

HARBOR OR WATERWAY		DIRECTION				DIRECTION			
DRAFT (FEET)	SELF PROPELLED VESSELS	NON SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS	NON SELF PROPELLED VESSELS		TOTAL	
		PASSENGER AND DRY CARGO	TANKER			DRY CARGO	TANKER		
VALDEZ HARBOR, ALASKA--(CONTINUED)					INBOUND				OUTBOUND
13 -		1	5	3					3
12 AND LESS-		57	5	15	10	87		14	17
TOTAL-	221	680	62	18	20	1,190	220	17	19
									1,189
ANCHORAGE, ALASKA					INBOUND				OUTBOUND
35 -		1	3			8	1		
33 -		1	2			3			
32 -		8	1			9	1		
31 -						90			
30 -		40				39	13		
29 -		34	4			21	25		
28 -		21				112	114		
27 -		107	1	4		6	24		
26 -		6				2	9		
25 -		1	1			14	43	2	
24 -						1	1	1	
23 -							2		
22 -						2	2		
21 -		1	1			2	2		
20 -		2				2	2		
19 -		6				6	1		
18 -		7				12	8	2	
17 -		11	1	11		23	11	1	
16 -		3	1			4	7	3	
15 -		1	2	36		38	1	3	
14 -				5		33		4	
13 -				4		19		7	
12 AND LESS-				6		14		16	
TOTAL-	4		21	30	7	62	3	22	58
									8
									92
TOTAL-	269	13	62	94	7	445	269	14	63
									94
									846
SILVULUS HARBOR, ALASKA					INBOUND				OUTBOUND
30 -		16	8			26	18		
29 -		1				1	2		
27 -		3				3	2		
26 -		1				1	1		
25 -		2				3	1		
24 -		2				3	3		
23 -		1				2	3	5	
22 -						2	3	2	
21 -		10				12	9	1	
20 -		12				13		1	
19 -		15				20	15	1	
18 -		35				36	30	1	
17 -		25				28	24	2	
16 -		27				33	30	6	
15 -		6				32	30		
14 -		32				32	30		
13 -		38				66	33	28	
12 AND LESS-		40	19	9		99	54	41	
TOTAL-	73	3	22	80	12	190	73	78	9
									183
TOTAL-	379	11	110	105	21	626	375	110	102
									22
									618
BETHEL HARBOR, ALASKA					INBOUND				
TOTAL, 15 AND LESS -		24	18	84	82	36	244	26	18
									85
CODNOVA HARBOR, ALASKA					INBOUND				OUTBOUND
TOTAL, 20 AND LESS -		156	16	6	6		184	156	16
									6
CRAIG HARBOR, ALASKA					INBOUND				OUTBOUND
TOTAL, 13 AND LESS -		51	26	13	24		114	49	26
									21
DILLINGHAM HARBOR, ALASKA					INBOUND				OUTBOUND
TOTAL, 14 AND LESS -		12	32	39	83		11	35	36
									82
DOUGLAS HARBOR, ALASKA					NO VESSEL TRIPS REPORTED				
DRY PASS, ALASKA					NO VESSEL TRIPS REPORTED				
EGBEIK RIVER, ALASKA					INBOUND				OUTBOUND
TOTAL, 18 AND LESS -		1	3	6	10		1	3	5
									9
ELFIN COVE HARBOR, ALASKA					INBOUND				OUTBOUND
TOTAL, 10 AND LESS -			3	8	7			5	8
									7
HOMER, ALASKA					INBOUND				OUTBOUND
TOTAL, 26 AND LESS -		166	10	20	9	8	200	166	9
									212
HOOAH HARBOR, ALASKA					INBOUND				OUTBOUND
TOTAL, 16 AND LESS -		236	41	18	18	17	308	238	37
									306

\* EXCLUDES DOMESTIC FISHING CRAFT.

## ALASKA DISTRICT

117

## TRIPS AND DRAFTS OF VESSELS \*

HARBOR OR WATERWAY	DIRECTION						DIRECTION					
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL
JUNEAU HARBOR, ALASKA TOTAL, 26 AND LESS - - - - -	639	19	181	114	66	1,019	653	18	181	109	64	1,005
KAKE HARBOR, ALASKA TOTAL, 16 AND LESS - - - - -	115		34	29	16	194	116		34	29	15	194
KING COVE, ALASKA TOTAL, 17 AND LESS - - - - -	52	10	8	0		70	52	10	8	7		77
KODIAK HARBOR, ALASKA TOTAL, 32 AND LESS - - - - -	244	21	43	28	13	320	244	21	43	20	17	303
METLAHATLA HARBOR, ALASKA TOTAL, 20 AND LESS - - - - -	372		204	95	47	718	372		204	93	47	716
NAKNEK RIVER, ALASKA TOTAL, 13 AND LESS - - - - -	0		37	46	1	93	0		40	46	1	96
NINILCHIK HARBOR, ALASKA	NO VESSEL TRIPS REPORTED											
NOME HARBOR, ALASKA TOTAL, 14 AND LESS - - - - -	10		32	17	5	60	9		31	16	5	61
OLD HARBOR, ALASKA TOTAL, 10 AND LESS - - - - -	6	4		INBOUND			10	5	3	OUTBOUND		
PELICAN HARBOR, ALASKA TOTAL, 16 AND LESS - - - - -	21		13	11	11	56	21		13	12	11	57
PETERSBURG HARBOR, ALASKA TOTAL, 21 AND LESS - - - - -	572		272	62	98	1,024	570		272	63	96	1,021
PORT ALEXANDER, ALASKA TOTAL, 10 AND LESS - - - - -			8	INBOUND			5	3		OUTBOUND		
SELDONIA HARBOR, ALASKA TOTAL, 16 AND LESS - - - - -	57	3	11	3	8	82	56	3	11	3	7	80
SEWARD HARBOR, ALASKA TOTAL, 30 AND LESS - - - - -	125	9	7	3	2	146	125	9	4	4	2	146
STIKINE RIVER, ALASKA TOTAL, 8 AND LESS - - - - -	6		39	90		135	6		39	90		135
OTHER SOUTHEASTERN ALASKA PORTS TOTAL, 32 AND LESS - - - - -	16,602	31	503	318	194	17,718	16,602	12	500	314	194	17,712
SOUTHERLY SIDE OF ALASKA PENINSULA TOTAL, 41 AND LESS - - - - -	573	180	181	49	24	967	572	184	142	50	24	973
WHITTIER HARBOR, ALASKA TOTAL, 24 AND LESS - - - - -	113	2	86	INBOUND			920	9	1,130	110	2	86
										921	9	1,128

\* EXCLUDES DOMESTIC FISHING CRAFT.

	Pages		Pages
<b>A</b>		<b>H</b>	
Alsea Bay and River, Oreg.	59, 109	Half Moon Bay, Calif.	29, 101
Anacortes Harbor, Wash.	71, 113	Hemesley Inlet, Wash.	64, 111
Anchorage, Alaska	82, 116	Hana Harbor, Maui, Hawaii	37, 103
Asotia, Oreg., Port of	46, 106	Hilo Harbor, Hawaii, Hawaii	30, 102
<b>B</b>		Homer, Alaska	66, 116
Barbers Point Harbor, Oahu, Hawaii	33, 102	Honolulu Harbor, Oahu, Hawaii	33, 103
Bellingham Bay and Harbor, Wash.	72, 113	Hoohah Harbor, Alaska	86, 116
Berkeley, Calif.	29, 101	Hoquiam River, Wash.	74, 113
Bethel Harbor, Alaska	85, 116	Humboldt Harbor and Bay, Calif.	27, 101
Blaine Harbor, Wash.	74, 113	<b>I</b>	
Bodega Bay, Calif.	29, 101	Iliulluk Harbor, Alaska	83, 116
<b>C</b>		Introduction	VII
Carquinez Strait, Calif.	24, 100	<b>J</b>	
Chetco River, Oreg.	59, 109	Juneau Harbor, Alaska	87, 117
Chinook Channel, Wash.	59, 109	<b>K</b>	
Clatskanie River, Oreg.	59, 109	Kahului Harbor, Maui, Hawaii	32, 102
Coeur d'Alene Lake and St. Joe River, Idaho	74, 113	Kailua Harbor, Oahu, Hawaii	37, 103
Columbia River Basin, Oreg., Wash., and Idaho	40	Kake Harbor, Alaska	87, 117
Columbia and Lower Willamette Rivers below Vancouver, Wash., and Portland, Oreg.	43, 105	Kalama, Wash., Port of	48, 107
Columbia River above the Dallas Dam, Wash., and Oreg., to McNary Lock and Dam, Oreg., and Wash.	52, 108	Kalaupapa Harbor, Molokai, Hawaii	37, 103
Columbia River and Tributaries above McNary Lock and Dam to Kennewick, Wash.	38, 104	Kaumalapau Harbor, Lanai, Hawaii	37, 103
Columbia River at Bakers Bay, Wash.	59, 109	Kaunakakai Harbor, Molokai, Hawaii	37, 102
Columbia River Basin, total waterborne commerce	39	Kawaihae Harbor, Maui, Hawaii	31, 102
Columbia River between Vancouver, Wash., and The Dalles, Oreg.	51, 107	Ketchikan Harbor, Alaska	76, 114
Columbia River Entrance, Oreg., and Wash.	40, 105	King Cove, Alaska	87, 117
Columbia River Mouth to the International Boundary (consolidated report)	40, 105	Kodiak Harbor, Alaska	87, 117
Columbia River, Ports other than Portland, Astoria, St. Helens, Longview, Vancouver, and Kalama	47, 106	Kootenai River, Idaho and Mont.	74, 113
Columbia River, Wenatchee to Kettle Falls, Wash.	74, 113	<b>L</b>	
Columbia Slough, Oreg.	59, 109	Lake River, Wash.	59, 109
Commodity classification	IX	Lake Washington Ship Canal, Wash.	69, 112
Coos and Millcreek Rivers, Oreg.	56, 109	Lewis River, Wash.	59, 110
Coos Bay, Oreg.	56, 108	Long Beach Harbor, Calif.	3, 95
Coquille River, Oreg.	55, 108	Longview, Wash., Port of	47, 106
Cordova Harbor, Alaska	85, 116	Los Angeles Harbor, Calif.	5, 95
Cowlitz River, Wash.	59, 109	<b>M</b>	
Craig Harbor, Alaska	85, 116	Metlakatla Harbor, Alaska	88, 117
Crescent City Harbor, Calif.	29, 101	Middle River, Calif.	15, 98
<b>D</b>		Mission Bay, Calif.	9, 96
Deep River, Wash.	59, 109	Mokelumne River, Calif.	15, 98
Depoe Bay, Oreg.	59, 109	Monterey Harbor, Calif.	29, 101
Dillingham Harbor, Alaska	85, 116	Morro Bay Harbor, Calif.	9, 96
Douglas Harbor, Alaska	86, 116	Moss Landing Harbor, Calif.	29, 101
Dry Pass, Alaska	86, 116	Multnomah Channel, Oreg.	49, 107
<b>E</b>		<b>N</b>	
Egegik River, Alaska	86, 116	Naknek River, Alaska	88, 117
Elfkin Cove Harbor, Alaska	86, 116	Napa River, Calif.	29, 101
Ellwood, Calif.	9, 96	Nailliwili Harbor, Kauai, Hawaii	35, 103
Elkomin Slough, Wash.	59, 109	Neah Bay, Wash.	74, 113
Encina, Calif.	9, 96	Newport Bay Harbor, Calif.	9, 96
Everett Harbor and Snohomish River, Wash.	70, 112	Ninilchik Harbor, Alaska	89, 117
<b>F</b>		Nome Harbor, Alaska	89, 117
Flathead Lake, Mont.	74, 113	Noyo River, Calif.	29, 101
<b>G</b>		<b>O</b>	
Gray Harbor and Chehalis River, Wash.	61, 111	Oakland Harbor, Calif.	19, 99
Grays River, Wash.	59, 109	Old Harbor, Alaska	89, 117
<b>P</b>		Old River, Calif.	15, 98
Pelican Harbor, Alaska	89, 117	Olympia Harbor, Wash.	64, 111
Petaluma River, Calif.	29, 101	Oregon Slough (North Portland Harbor), Oreg.	49, 107
Petersburg Harbor, Alaska	89, 117		
Port Alexander, Alaska	90, 117		
Port Allen Harbor, Kauai, Hawaii	37, 103		

Pages	Pages
<b>P</b>	
Port Angeles Harbor, Wash.----- Port Gamble Harbor, Wash.----- Port Hueneme, Calif.----- Portland, Oreg., Port of----- Port Orford, Oreg.----- Port Townsend Harbor, Wash.----- Puget Sound Area, Other Ports, Wash.-----	61, 111 63, 111 7, 96 53, 108 59, 110 62, 111 74, 113
<b>Q</b>	
Quillayute River, Wash.-----	74, 113
<b>R</b>	
Redondo Beach, Calif.----- Redwood City Harbor, Calif.----- Richmond Harbor, Calif.----- Rogue River, Oreg.-----	9, 96 18, 99 21, 99 59, 110
<b>S</b>	
Sacramento, Calif.----- Sacramento River, Calif.----- Sacramento River Deepwater Ship Channel, Calif.----- St. Helens, Oreg., Port of----- San Diego Harbor, Calif.----- San Francisco Bay and Delta Area, total commerce of----- San Francisco Bay Area, Other Port, Calif.----- San Francisco Bay Entrance----- San Francisco Harbor, Calif.----- San Joaquin River, Calif.----- San Pablo Bay and Mare Island Strait, Calif.----- San Rafael Creek, Calif.----- Santa Barbara Harbor, Calif.----- Santa Cruz Harbor, Calif.----- Seattle Harbor, Wash.----- Seldovia Harbor, Alaska----- Sergius and Whitestone Narrows, Alaska----- Seward Harbor, Alaska----- Sitka Harbor, Alaska----- Siuslaw River, Oreg.----- Skagit River, Wash.----- Skagway Harbor, Alaska----- Skamokawa Creek, Wash.----- Skamokawa (steamboat) Slough, Wash.----- Skipanon Channel, Oreg.----- Smith River, Oreg.-----	11, 97 10, 97 11, 97 59, 110 3, 95 16 29, 101 16, 99 16, 99 12, 97 22, 100 29, 101 9, 96 29, 101 67, 112 90, 117 80, 114 90, 117 79, 114 57, 109 74, 113 81, 115 59, 110 59, 110 59, 110 59, 110
<b>T</b>	
Tacoma Harbor, Wash.----- Tillamook Bay and Bar, Oreg.-----	65, 112 59, 110
<b>U</b>	
Umpqua River, Oreg.-----	57, 109
<b>V</b>	
Valdez Harbor, Alaska----- Vancouver, Wash., Port of----- Ventura, Calif.-----	82, 115 50, 107 9, 96
<b>W</b>	
Wake Island Harbor, Wake Island----- Waterway connecting Port Townsend Bay and Oak Bay, Wash.----- Wellis Harbor, Midway Island----- Westport Slough, Oreg.----- Whittier Harbor, Alaska----- Willamette River above Portland and Yamhill River, Oreg.----- Willapa River and Harbor and Naselle River, Wash.----- Wrangell Harbor, Alaska----- Wrangell Narrows, Alaska-----	37, 103 74, 113 37, 103 59, 110 91, 117 55, 108 74, 113 77, 114 78, 114
<b>Y</b>	
Yaquina Bay and Harbor, Oreg.----- Yaquina River, Oreg.----- Youngs Bay and Youngs River, Oreg.-----	58, 109 60, 110 46, 106

**END**

**FILMED**

**1-85**

**DTIC**